

USER MANUAL

16-CH Embedded Digital Video Recorder



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Notes

© The power supply of this DVR is provided through DC12V5A adapter, please check the power outlet before installation and ensure it can meet the requirements of adaptor;

[©]Do not place the DVR at a place subject to rain or moisture;

[©]Do not install the DVR at a place subject to violent vibration;

 \bigcirc Do not install the DVR at a place subject to direct sunlight, and be far away from heat and high temperature environment;

©The DVR's back panel shall be 15cm or more away from other objects or wall, to facilitate fan cooling;

© The DVR shall work under temperature, humidity and voltage according to its technical specifications;

 \odot The space where DVR installed shall not be stored with corrosive chemicals that may produce volatile gases, to avoid to affect the DVR's life;

©The DVR shall be installed in a space without much dust, and the environment should be kept clean and tidy;

[©]Proper grounding shall be installed during operation;

ODVR should be installed to ensure the proper connectivity with other devices.

Please buy harddisk from official channel to meet DVR's long time and much data reading and writing requirements.

Packaging and Accessories

Following parts are included in the package:

- One IR remote controller
- ◎ A pair of remote controller batteries
- One piece of product certificate
- One piece of product warranty card
- One piece of product instruction
- Several SATA harddisk data cables
- ◎ One DC12V5A power adapter
- ◎ HDD support (already installed) and a set of mounting screws.
- One piece of CD.

Chapter 1 DVR Instruction

Real-time	A notes extruct realize mention for stiens through mention	
Monitoring	Analog output, realize monitor functions through monitor.	
Record	Summark LIDD to accus mod time moond	
Storage	Support HDD to save real-time record.	
Backup	Support USB flash drive, removable drive, network backup to HDD.	
Playback	Enable single CH and multiple CH to search playback via DVR or Network.	
Network	Support remote access by authorized users to increase expansibility and security of	
Operation	system.	
Alarm Setting	Support HDD & Video input alarm Management	
Mouse	Support Mouse exercise for flouible system actua	
Operation	Support Mouse operation for flexible system setup.	
PTZ Control	Support PTZ camera operations via RS-485.	

Technical Specifications

©H.264 compression format

©Linux operation system, graphical interface, supports mouse and IR remote control operation;

©Support IE browse, real-time network monitor and DVR parameter setting;

 $\ensuremath{\mathbb O}$ Multiple recording modes: manual recording, timing recording, motion recording

©Supports playback of event categories and accurate time; RS-485 port to support PTZ control;

©Support video signal loss alarm; automatic password protection for the sake of illegal operation;

©Support USB flash drive and HDD backup;

©Support 2 SATA HDD, capacity of single one is to 2T;

©Support auto recovery when power off or reset.

Video compression format	Main profile H.264
Video output	NTSC/PAL : 16 channel BNC input 1 channel BNC output
Display resolution	800*600 60HZ、1024*768 60HZ、1280*1024 60HZ
Record frame rate	PAL: 5/6/12/25 fps NTSC: 5/6/15/30 fps
Record resolution	CIF/Half-D1/D1 are optional
OSD output	VGA/CVBS
Image Quality	Lowest, Low, Normal, High, Highest
HDD	Support SATA port
Video standard	PAL/NTSC

Chapter 2 DVR Introduction

2.1 Front Panel (only for reference)

Functions of front panel shown as followed:



Item	Key title/ Indicator	Function
1	POWER	The green indicator light shows the DVR power supply is normal
2	עתא	The red indicator light shows at least one HDD is connected
2	עעוו	successfully and useful normally.
3	ALARM	The Alarm indicator light is on when there is a triger alarm
4	LINK	The web indicator light is on when the web is connected. The
4		web indicator light is off when the web is cut.
5	REC	The indicator light is on when recording.
6		The receipt of the IR remote control signal

2.2 Rear Panel (only for reference)



1	VIDEO IN: CH1-16Video Input	5	RS485:PTZ, A:+ B:-	
2	CVBS:Main Video output	6	DC12:	
			power supply interface, DC 12V5A	
3	NETWORK:	7	VCA:VCA Output	
5	Network interface	"		
4	USB Interface:	0		
4	Mouse and USB Disk	0	♥: GND	

2.3 Remote controller (only for reference)



C	System OFF
这	Mute
1-9	Channel selection: 1-9
0	Combination of 0 and 10 switch to channel 10
10+	Combination of 0-6 and 10+ switch to 10-16 respectively
Ħ	Display switch
•	For the focus transfer of plug-ins in the menu's interface; move up
•	For the focus transfer of plug-ins in the menu's interface; move down
PTZ	Enter PTZ interface/Enter
•	For the focus transfer of plug-ins in the menu's interface; move leftwards
•	For the focus transfer of plug-ins in the menu's interface; move rightwards
SYSINFO	View basic information of system
MENU/ESC	Pop up right click menu
•	Manual record
	Stop
•	Fast forward
•	Fast reverse
	One frame fast forward
	One frame back forward
LOG	Enter log search interface
F1	Spare key
SPOT	SPOT output

Chapter 3 Installation

3.1 HDD Installation

Notice: Don't take out the HDD while the DVR in operation.

HDD Setup:

(1) Open the upper cover of DVR.

(2) Connecting HDD wire and power wire to the mainboard.

(3) Put the upper cover back.

3.2 Connecting Cameras and Monitor

Connect camera cable to video input of DVR, and attach the video output cable from DVR to monitor via BNC connector (refer to section 2.2-Rear Panel). If the camera is PTZ dome, connect RS485 A & B to the port of DVR respectively.

3.3 Connecting power

Please use the supplied power adapter to connect DVR.

Chapter 4 Basic Operations

4.1 System Initialization

After connecting the power adapter and pressing the power button, the system will be turned on.

4.2 Main interface

After turning on the system will enter main interface. Picture 4-1 is the main interface defaulted by system. Once there are video inputs, the interface will display live images from the channel; if not video input, interface is defaulted blue. In the main interface, double-click any channel, the image will be maximized to full screen, by double-click again, image will come back to multiple display mode; clicking the right button of mouse then will enter Pop-up Menu, move the cursor to select menu, then click the left button to enter the selected menu or carry out the functions.



Picture 4-1

4.3 Right-click Menu

After start-up of the system, click right button of mouse in the main interface, through pop-up main menu, user could perform parameter setting and operate on the main menu, e.g., main menu, video search, PTZ control, manual record, switch of single channel and multi-channel, shown as picture 4-2.



4.4 User Login

Click the Menu Key to pop up the information of the User Login, as shown in Image4-3 the defaulted user name:admin;Password:00000000

If any users to be added or passwords to be modified, pls refer to the 'User Management'in Chapter 4.7.5

4.5 Playback and Backup

4.5.1 Playback

Pls click 'Record Search' in the quick menu(reference to 4.3) to enter the following interface

	RECORD SEARCH
Ву Туре	ALL V
By Time Date Time	Play
	Exit

Picture 4-4

Two way to Playback:

 Search by time, enter the date&time in the 'By Time' Column,then click 'play' button to play the record file of this time.If no record file in this period,there will be a system note 'File open error'
 Search By type,enter the record types in the 'By Type' Column,there are five options of the types:ALL/Manual/Schedule/Alarm/Schedule&Event,then click 'search' button to display the file list as shown as the following image

2010/11/11 2010/11/12 2010/11/13	15:06:17-15:0 15:38:33-16:0 16:00:00-17:0 17:00-00-18:0	8:00(2089) 0:00(16329) 0:00(46399)	Page	Step 1	
2010/11/11 2010/11/12 2010/11/13	15:06:17-15:0 15:38:33-16:0 16:00:00-17:0 17:00:00-18:0	8100 (208/8) 0100 (1632/8) 0100 (4636/8)			
2010/11/12 2010/11/13	15:38:33-16:0 16:00:00-17:0 17:00:00-18:0	0:00(163248) 0:00(463848)			
2010/11/13	16:00:00-17:0	0700[463878]			
	17-00-00-18-0				
2010/11/14	A FAMILAND AVAIL	0:00[4567/B]			
2010/11/15	18:00:00-19:0	0:00[444888]			
2010/11/16	19:00:00-20:0	0:00[456588]			
2010/11/17	20100100-2110	0:00[455188]			
2010/11/18	21100100-2210	0:00[44948]			
2010/11/19	22:00:00-23:0	0:00[445588]			
2010/11/23	23:00:00-00:0	0:00[447088]			
2010/11/24					
2010/11/30					
					-
RU	esRackup	Prev	Next		Exit

Picture 4-5

Select one of the files in the list, pop up the following note:

	RECORD SEARCH	
2010/11/11 2010/11/12 2010/11/12	Page Step 1 15:06:17-15:08:00 (20:98) 15:38:38-16:00:00 (16:32/8) Version and the page 2	
2010/11/14 2010/11/15 2010/11/15 2010/11/16 2010/11/19 2010/11/19 2010/11/29 2010/11/29 2010/11/29	Please select operation PlayBack FileBackup	
1	FilesBackup Prev Next Exit	

Picture 4-6

Click PlayBack to enter the play format as shown in the following image:





This DVR supports the 16 channel playback simultaneously, or you can also double-click one channel to operate the single-channel play. Among the function icons of the PLAY Control Bar under the PLAY

window, there is 'fast backward, step backward, Stop, step forward, fast forward, 16 channel split, 9 channel split, four channel split, single channel display, mute, half-closed, when the archor of the mouse is static for 10 seconds, the PLAY Bar will hide automatically.

4.5.2 Backup

Single file Backup:Select one file in the file list to click the left button of the mouse to start the single file backup after entering the Record Search interface as shown in image4-7:





File Backuping:



Setup Method:

 Set the backup equipment, file start-stop time, channel options in the record backup interface Device:Display the backup equipment information

File Start Date and Time:Set the File Start Date and Time

File Stop Date and Time:Set the File Stop Date and Time

- (2) Select the file format, press the arrow key to select the backup file format, the supported format is H264 format. Then press the arrow key to select the "OK" button to start the backup, (H264 Format file is to be played with the professional player.)
- (3) The low end of the Backup interface can display the capacity(remaining capacity) of the outlay equipment, detect the capacity of the backup file automatically, evaluate the backup time and display the present time and backup speed.

Multiple files backup:Click the " \checkmark " in the small frame on the right side of the file list to select files as shown in image 4-6. Then click the "files backup" button (as shown in image 4-6) to operate the multiple files backup. The backup interface is as shown in image 4-11:



ordinary U	Disk	or USB	Portable	HDD;CD	/DVR-RW	is	the
USB CD Writ	ter.						
Disk Size:	The	total d	capacity (of the	input U	SB	

equipment, the displayed remaining capacity in the back bracket

Device: USB Disk and CD/DVR-RW Selectable USB is the

File Size: The capacity of the backup file Progress: There will be a processing bar during the backup process

Click "OK" button after the backup setting

File backuping...

Backup successfully !

Notice	1. The evaluated remaining time(estimated time) may be a bit different from the actual time.
	2. To identify U disk or USB disk, the back-up device should be formatted by FAT32 format.



4.7 Main Menu

In the main interface, right-click to pop up the menu, click "main menu" (shown as picture 4-2), where could set the following items: Record, Alarm, Channel, Network, User Management, System, Record Backup and Log Search setting.



Picture 4-14

4.7.1 Record

1) Basic setting

Click [Main menu] \rightarrow [Record] to enter [record] menu (Shown as picture4-14)

There are options of Resolution, Image Quality, Frame Rate, Pre- record available in the interface.

Notice [Exit] menu means exit the current interface for returning to previous menu or main interface.

Just now the resolution of 16 CH supports CIF/half-D1/D1. There are five grades of IMAGE QUALITY: lowest, low, normal, high, highest, the comparative result shown as the following table:

Image Quality	Resolution	Maximum rate	Capacity to HDD per hour
lowest	CIF/Half-D1/D1	64K	900M
Low	CIF/Half-D1/D1	256K	1.76G
Normal	CIF/Half-D1/D1	512K	3.51G
High	CIF/Half-D1/D1	768K	7.03G
Highest	CIF/Half-D1/D1	1024K	10.55G

a. Frame rate is the number of frame per second, if less than 25 fps, image is not successive, but could save minor stream and decrease data size. There are four standards, PAL: 5/6/12/25 frame and NTSC: 5/6/15/30 frame.

- b. Pre-record: when one channel in timing alarm, the number of fps between the beginning of the channel is triggered by alarm and end of event alarm, two options: 5 frame, 6 frame.
- c. Copy to channel: after the setting of parameter of one channel, parameters of other channels are accordance with the first one channel, and then could use this item to copy the parameters of first one channel to other channels.

RECORD						
Basic Advance	ed Plan					
Video Channel	1					
Resolution	CIF					
Quality	Highest					
Frame Rate	25					
Audio	1					
Pre-Record	2					
Сору То	1		Сору			
	Apply	OK	Exit			
and the second						

Picture 4-15

2) Advanced setting

To get to the ADVANCED SETUP, left click to the interface or via DISPLAY of front panel to other tags. There are two options: Override & Time and Date override

Setting method:

Note: Please note that PTZ also functioned as Enter.

- (1) Overwrite: Press the arrow key to select [Overwrite], popup dropdown menu with PTZ, and then press the arrow key to choose YES/NO. If select YES, this will make the new record file will overwrite the former record file when the capacity of HDD is full. If select NO, the new record file won't be stored in HDD when the capacity of HDD is full.
- (2) Time and Date Overwrite: Press the arrow key to select [Time and Date Overwrite], popup dropdown menu with PTZ, and then press the arrow key to choose YES/NO. If select YES, this will display time and date in the video playback, if select NO, the time and date won't be displayed in the video playback.

		RECORD		
Basic	Advanced	Plan		
Overwri	te Yes			V
Overlay	Yes			
		Apply	y OK	Exit

Picture 4-16

3) Record Plan

"Record Plan" includes setup of Off, Schedule Record, Alarm Record, and Schedule & Alarm Record. Record Plan has seven days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday. There are 24 time periods and one hour per time period.

Setting method:

- (1) Press the arrow key to "Channel" and enter PTZ to popup the interface.
- (2) Move cursor to any options: such as Off, Schedule Record, Alarm Record, and Schedule & Alarm Record, press PTZ to tick " $\sqrt{}$ ".
- (3) Move cursor to any time options; press the combination of right & left keys and PTZ to select time area.
- (4) If apply all settings to other channels, just move cursor to "Copy to" and press PTZ to copy the settings to one channel or all channels.
- (5) Move cursor to "Enter" and PTZ to save above settings.



Picture 4-17

4.7.2 Alarm Setup

1) Motion Detection

In motion detection, except the setup of sensitivity and MD area, settings of other functions as same as alarm input, users could follow the former sections. Next mainly introduce the setting of sensitivity and MD area.

Sensitivity refers to corresponding sensitivity in motion detection when the event record mode is motion detection or alarm record.

Setting method:

(1) Press the arrow key to select [Sensitivity], popup dropdown menu with PTZ, and then press the arrow key to choose [Sensitivity].

(2) Enter PTZ to apply the selected sensitivity.





MD Area Setup

MD Area refers to corresponding MD area in motion detection when the event record mode is motion detection or alarm record.

(1) Press the arrow key to select [MD Area], popup dropdown menu with PTZ, and then press the arrow to choose some part, and enter the interface with the click of PTZ. (Shown as picture 4-19)

(2) Press the arrow key to select the starting point of motion detection and PTZ to apply the choice, and move the cursor to choose desired motion area, then enter "ESC" to exit the interface, at last, press "Enter" to save above settings.



Picture 4-19

2) HDD Error

Click DISPLAY to "HDD Error", shown as picture 4-20.

HDD mistake is that when there is mistake of HDD, DVR will alarm to remind the user.

Setting method:

- (1) Press the arrow key to select [Alarm Output], enter PTZ to choose action port, and press "Enter" to exit.
- (2) Buzzer setup: To check DVR whether enable beep when set event trigger. Select "Buzzer", press PTZ to open dropdown menu and arrow key to choose ON/OFF. If select ON, the buzzer is activated; if select OFF, the buzzer is invalid. When the event is finished, the buzzer is off automatically.
- (3) Event duration means the duration of alarm when the start of event setup. Press the arrow key to select [Event Duration], popup dropdown menu with PTZ, and then press the arrow to choose working time. There are following options: (3/5/10/20/30/60/120/180/300/600/900/1200 S), while the system default is 10 seconds. Finally, press ON/OFF to apply selected time with PTZ.
- (4) Setting the above parameters, press the arrow key to Enter and PTZ to save the parameters.



Picture 4-20

3) Password Error

Click DISPLAY to "Password Error", shown as picture 4-21.

Password Error means that the current user or other users input wrong password, DVR will alarm to remind the user.



Picture 4-21

4) Video Loss

Click DISPLAY to "Video Loss", shown as picture 4-22.

Video Loss: When there is video loss of one channel, DVR will alarm to remind the user.

- (1) Press the arrow key to select [Alarm Output], enter PTZ to choose action port, and press "Enter" to exit.
- (2) Buzzer setup: To check DVR whether enable beep when set event trigger. Select "Buzzer", press PTZ to open dropdown menu and arrow key to choose ON/OFF. If select ON, the buzzer is activated; if select OFF, the buzzer is invalid. When the event is finished, the buzzer is off automatically.
- (3) Event duration means the duration of alarm when the start of event setup. Press the arrow key to select [Event Duration], popup dropdown menu with PTZ, and then press the arrow to choose working time. There are following options: (3/5/10/20/30/60/120/180/300/600/900/1200 S), while the system default is 10 seconds. Finally, press ON/OFF to apply selected time with PTZ.
- (4) Setting the above parameters, press the arrow key to Enter and PTZ to save the parameters.

ALARM SETUP						
Alarm In Motion	HDD	Passod	Video			
VideoLoss Actio	ns					
Alarm Out	None					
Buzzer	Off					
Event Duration	10 Second					
Send E_mail						
VideoCover Acti	ons					
Alarm Out	None					
Buzzer	Off					
Event Duration	3 Second					
Send E_mail						
		Apply	05	Bxit		

Picture 4-22

4.7.3 Channel Setup

Click "Main Menu" \rightarrow "Channel Setup", the interface is shown as picture 4-23. There are following options: Channel number, Channel name, PTZ protocol, Baud rate, PTZ address code and color setup.

1. Channel number: Press the arrow key to select "Channel number", and press PTZ to apply the selected channel.

- 2. Channel name: Press the arrow key to select "Channel name" and PTZ to popup the edit menu(Chinese, English, Numeric, Special character can be input as channel name), if input numeric or lower case, just use the arrow key to select directly; if input capital letters, user should press "Caps" of edit menu to switch to capital input; if input special character, press the ",." of edit menu to switch to special character input; if input Chinese, press "En" of edit menu to switch to chinese input. 16 characters are supported.
- 3. PTZ Protocol: This protocol is used to realize the communication with PTZ. In order to control PTZ cameras, PTZ should be connected with PTZ port of DVR. Press the arrow key to select "PTZ Protocol" and PTZ to popup the dropdown menu, with the click of arrow key to choose appropriate protocol and enter PTZ to apply the selected protocol. There are a number of protocols could be used: PTZ-NULL, LG LPT-A100L, DRX-502A(Demo), PELCO D, NK-97CHE, SAMSUNG SCC-641, PELCO P, SJ2819RX, SAMSUNG MRX-1000,
- 4. Baud Rate: Press the arrow key to select [Baud Rate], popup dropdown menu, and then press the arrow key to choose appropriate baud rate, at last, enter PTZ to apply the selected baud rate.

Techwin SPD1600/2500, Wonwoo Eng: SBO-201P1, Panasonic WV-CS850.

5. PTZ ID: Press the arrow key to select [PTZ ID], popup dropdown menu with click of PTZ, and

then press the arrow key to choose the number, finally enter PTZ to apply the selected number. PTZ IP ranges from 0-255.





6. Color Setup: Through the setup of color, bright contrast, saturation, hue to set the display of channel. Press the arrow key to select [Color setup] and PTZ to enter the interface. With the click of arrow key to choose bright, contrast, saturation, hue respectively and use the right and left keys to adjust number. After the adjustment, press ESC to exit the interface, in the end, press the arrow key to select "enter" and save the settings with the click of PTZ. (shown as picture 4-24)



Picture 4-24

4.7.4 Network setup

Enter [main menu] \rightarrow [network setup], the interface shown as picture4-25.

- 1) Basic setup: Connection Mode, IP address, Netmask, Gateway, NTP Server, HTTP Port, Media Port, Intercom Port.
 - (1) Connection Mode: Dynamic IP and Static IP

Static IP refers to the IP address, Netmask and Gateway assigned manually, this requires that we're going to apply for an IP address from network administrator. Dynamic IP refers to IP address assigned by the Dynamic Host via DHCP, you don't need to set IP, Gateway or Netmask manually.
Setting method: Press the arrow key to select [Connection mode], popup dropdown menu of PTZ, and then press the arrow key to choose the connection mode with PTZ key.

(2) IP/ GATEWAY /NETMASK Setup Only when the Static IP is selected as network connection mode, then IP/GATEWAY/NETMASK could be activated.

Setting method: Move down to IP, and press the PTZ to popup the edit menu, enter the desired IP. Setup of Netmask and Gateway is same way.

- NTP Server address setup: Set the address of time correction server is to realize DVR's time synchronization.
 Setting method: Press arrow key to select "NTP Server" → enter PTZ→ select NTP Server→ enter the address in the interface, finally, click "Enter".
- Port Number Setup: HTTP Port, Media Port and Intercom Port.
 Setting method: Press the arrow key, enter "HTTP Port", and press the PTZ to popup the edit menu, input port number (between 1024-65535), finally, click "Enter". Setup of Media Port and Intercom Port is the same way.

Note: When forwarding the ports in the WAN setting with the UPNP functon option off, then four ports need to be forwarded. The defaulted setting are as below:8000,40001,40002,40003.

	NETWORK	
Basic Advance	ed	
Connect Mode IP Address Netmask Gateway Addr. MAC Addr. NTP Server HTTP Port Media Port Intercom Port	Static IP ▼ 192.168.1 .220 255.255.255.0 192.168.1 .1 aa:bb:cc:dd:ee:ff 128.250.36 .2 8000 40001 (40002, 40003) 7000	
	Apply OK	Exit

Picture 4-25

2) Advanced Setup

Press "DISPLAY" to switch to "Advanced Setup".

In this interface, there are following options: code stream, select channel, resolution, quality, frame rate, Email setup, DDNS setup, DNS setup. In the former chapters have introduced how to select channel and set resolution, image quality, frame rate, therefore, the following sections only introduce the setup of code stream, Email, DDNS, DNS,Mobile port and UPNP.

(1) Minor stream

Can set network transmission resolution, when the network is not connected well, can low the resolution and frame rate.

ed		
ALI		
CIF		2
Highest		
6		
Setup		
Setup		
Setup	UPNP 🔽	
Setup		
Ap	ply OK	Exit
	All CIF Highest 6 Setup Setup Setup Setup	All CIF Highest 6 Setup Setup Setup UPNP

Picture 4-26

(2) Email Setup is shown as the picture 4-27:

a) Press the arrow key to select [email] and enter the interface with PTZ, and then tick " $\sqrt{}$ " with the combination of arrow key & PTZ, open the [Email] menu.

b) Input SMTP port number, SMTP server, Sender address and password, recipient's address respectively, at last, press Enter and PTZ to save above settings.

	Email	
Email SMTP Port SMTP Server	25 smtp.163.com	
From	wing2250163.com	
Passwd	*******	
	Default Apply OK Exit	
	Picture 4-27	

(3) DDNS Setup (shown as picture 4-28)

Setting method:

a) Press the arrow key to select [DDNS] and enter the interface with PTZ, and then tick " $\sqrt{}$ " with the combination of arrow key & PTZ, open the [DDNS] menu.

b) Set DDNS type, server address, domain name, user name, password and password confirmation respectively, at last, press Enter and PTZ to save above settings.



Picture 4-28

(4) DNS setup as shown in picture 4-29

Setting Method

a) Press the Arrow keys to select the DNS Setup button, click PTZ button to enter DNS screen, then press the Arrow keys to select DNS1 or DNS2.

Press PTZ button to enter edit menu, then set the DNS.

b) Click "OK" button after the setup of DNS, then press PTZ button to save the above settings.



Picture 4-29

(5) Mobile

Enter the interface, you can setup the mobile port .

(6) UPNP

When the UPNP function is on (UPNP function on the router end is also on of the router setting), then the DVR will reflect the port and IP into the router automatically.

4.7.5 User Management

Enter "Main Menu" \rightarrow "User Management", the menu screen as shown in picture 4-30

User Manage is referred as the adding, modifying and deleting of users in addition with the setup of users' grades.

Setting Method:

(1) Press Arrow keys to click Add button, then press PTZ button, set the name, password and grades of the added user.

(2) Click OK button after adding the new users, press PTZ button to save the set parameters.

(3)If one of the users is to be edited or deleted, press the Arrow Keys to select this user, then press PTZ key to set the user as the selected status. Move the cursor to the User-delete button or edit button, press PTZ button to delete or edit users.

Notice In the user management interface, you could only add 15 users at most.





4.7.6 System Setup

Click "Main Menu"→ "System Setup" to enter System Setup menu interface as shown in Picture 4-31

1) Basic Setup

Setting Method:

(1) System Date Format: YYYY/MM/DD,DD/MM/YYYY,MM/DD/YYYY

Setting Method: press the Arrow Key to select the System Date Format Column, press PTZ button to pop up the drop-down menu, then press the Arrow Key to select the appropriate format, press PTZ button to apply the selected format.

(2) Time Zone

Setting Method: Press the Arrow Key to select the Time Zone Column, press PTZ Button to pop up the drop-down menu, then press the Arrow Key to select the appropriate Time Zone, press PTZ button to apply the selected time zone. (At present, this function is not available)

(3) System Date Setup

Setting Method : Press the Arrow Key to select the System Date Setup Column, press PTZ Button to pop up the drop-down menu, then press the Arrow Key plus PTZ button to set the date, press Enter button on the edit menu to apply the selected date.

(4) System Time Setup

Setting Method : Press the Arrow Key to select the System Time Setup Column, press PTZ Button to pop up the drop-down menu, then press the Arrow Key plus PTZ button to set the time, press Enter button on the edit menu to apply the selected time.

(5) Device ID:

When using special keyboard or IR remote control to dominate several DVRs, the machine ID is needed. (At present, this function is not available in remote control)

Setting Method :

Press the Arrow Key to select Machine ID Column, press PTZ button to pop up the drop-down menu, then press the Arrow Key plus PTZ key to set the ID, press the "Enter" key to apply the selected ID. The range of

Device ID is 0-255.

After the setting of the parameters, press the Arrow Key to click OK button, then press PTZ button to save the above settings.

SYSTEM SETUP							
Basic	Advance	ed HDD	Maintai	D.			
Date F Time Z System System Device Keypad	ormat Cong 1 Date 1 Time 2 ID 1 Tone	YYYY/MUDD GMT+08:00 2010/12/02 10:22:43 0 On		×			
		A	ply	OK	Exit		

Picture 4-31

2) Advanced Setup

Press DISPLAY key to switch into the interface of Advanced Setup. Advanced Setup Interface indicates three functions: System Language, Format Selection, Auto lock

(1) System Language: set the system display language

Setting Method : press the Arrow Keys to select system language column, press PTZ key to pop up the drop-down menu, then press the Arrow Keys to select the system display language, press PTZ button to apply the selected language. The system supports the following languages: Simplified Chinese, Traditional Chinese, English, Korean and so on.

(2) Format Selection: NTSC and PAL

Setting Method : press the Arrow Keys to select format column, press PTZ key to pop up the drop-down menu, then press the Arrow Keys to select the format, press PTZ key to apply the selected format.

(3) Auto lock: the system would be automatically locked when having no operation of system function during a particular period. (At present, this function is not available)

Setting Method:

Press the Arrow Keys to select auto lock column, press PTZ key to pop up the drop-down menu, and then press the Arrow Keys to select the intervals. The intervals are optional (0/1/3/5/10/30/) minutes, the default setting is 0 minute.

		SYSTEM	SETUP		
Basic	Advanc	ed HDD	Maintai	n	
Lan NTS Aut	guage C/PAL o Lock	English PAL OMInutie			
			Apply	OK	Bxit
		Pictur	e 4-32		

3) Hard disk management

Press DISPLAY key to switch to the Hard Disk management interface.

Hard disk management interface mainly displays hard disk information (Hard disk Status, total capacity and remaining capacity) and the operation of hard disk formatting.

Hard Disk Formatting

Setting Method:

Press the Arrow Keys to select hard disk format and PTZ key to tick $\sqrt{}$, press the Arrow Keys to click the hard disk format button, then press PTZ key to execute the formatting.

		SYSTE	M SETUP		
Basic	Advanced	HDD	Maintair	n	
HDD HDD 1 HDD 2	Status 465GB(7 N/A	Total GB (nul	left 1))		:
			HDD F	ormat	Exit

Picture 4-33

4) System Maintain

Note

Press DISPLAY key switching to the system maintain interface as shown in Picture 4-34 The system maintain interface mainly deal with the updating of DVR. Upgrade indicates: System BIOS, System Image, and System APP.

> The power supply should not be interrupted when updating; you could also not restart the machine during this period; or the machine can not start.
> The lower left of the screen would appear "Upgrading Successfully" after the successful upgrade. Then you can restart the machine.
> Unplugging and plugging the USB disk is forbidden during the updating



		SYSTEM	SETUP		
Basic	Advance	ed HDD	Main	tain	
Upgrad Delete Defaul	e Log t Setting	APP Event Log		OK OK	
					Exit



4.7.7 Display Setup

Click "Main Menu"→ "Display Setup" to enter Display Setup menu interface as shown in Picture 4-35 The display setup interface mainly indicates: Main display switching interval (Main Interval), SPOT switching interval(Spot Interval),video loss ignore(Camera Loss),display resolution. (1) Main display switching interval (Main Interval) is referred as the setup of the interval between the switching of the main displaying screen.

Setting Method: press the Arrow Keys to select main display switching interval (Main Interval) column, press PTZ key to pop up the drop-down menu, finally, press the PTZ key to apply the selected intervals. The optional numerical value indicates (1/2/3/5 second etc.), the default value is 2 seconds.

(2) SPOT Interval:NOT support

(3) Video Loss Ignoring (Camera Loss) is referred as the skipping of the channel without video signal input.

Setting Method : Press the Arrow keys to select video loss ignoring (Camera Loss) column, then press PTZ key to pop up the drop-down menu, press the arrow key to select on/off, press PTZ key to apply the selected settings. If the setting is on, then the channel without video input will be skipped. While the setting is off, all the channels will be displayed whether any video input or not.

(4) Display Resolution: the resolution setup of VGA output port

Setting Method : Press the Arrow Keys to select display resolution(Resolution) column, press PTZ key to pop up the drop -down menu, press the Arrow Keys to select the video output resolution, then press PTZ key to apply the selected settings.



Picture 4-35

4.7.8 Log Search

Click "Main Menu" \rightarrow "Log " to enter the interface as shown in Picture 4-36

	LUG	
System Even		I 🚔
2010/09/02 16:30:29	Log format: OK	
2010/09/02 16:31:05	System 1.0.28 start	
2010/09/02 16:31:05	Internal HDD-1 check: OK	
2010/09/02 16:31:05	Internal HDD-2 check: Fai	lure
2010/09/02 16:31:33	Ethernet connect: 29,244.	12, 183 (0)
2010/09/02 16:31:41	Setup mode	
2010/09/02 16:31:56	Setup mode	
2010/09/02 16:32:19	Setup mode	
2010/09/02 16:32:21	Setup mode	
2010/09/02 16:32:44	Change boot config	
2010/09/02 16:32:46	Change boot config	
2010/09/02 16:32:48	Setup mode	
2010/09/02 16:32:58	Setup mode	
2010/09/02 16:33:01	Setup mode	
2010/09/02 16:33:03	Setup mode	
2010/09/02 16:33:54	Setup mode	
	Prev	Next Exi



The login and startup of the device would leave a log message. Users could check the log information.

1. System Log

The system log indicates: the record of the normal start, local system login, remote login, system updating.

Setting Method:

(1) In the system log interface, press the arrow keys to select the category query column, press PTZ key to pop up the drop down menu, then press the arrow keys to select the queried log type, press the PTZ key to apply the settings.

(2) Setup of the queried time: press the arrow keys to select search button, press PTZ button to enter log list interface as shown in the below picture

2. Event Log

Event log indicates: the records of triggered event deletion, video loss, linkage alarm, dynamic detection, wrong password, HDD error.

Setting Method:

(1) In the system log interface, press the arrow keys to select the category query column, press PTZ key to pop up the drop down menu, and then press the arrow keys to select the queried log type, press the PTZ key to apply the settings.

(2) Setup of the queried time: press the arrow keys to select "search" button, press PTZ button to enter log list interface as shown in the above picture.

4.7.9 PTZ Control

Click the right mouse button \rightarrow select the "PTZ control" in the right button menu to enter PTZ control interface.

After entering the PTZ control interface, it is very convenient to control the PTZ. The PTZ control interface is as shown in picture 4-35. The speed of PTZ could be set. The arrow buttons is used to control the direction of the high-speed ball movement, press "+","-" button to control zoom, focus, iris.



Picture 4-37

4.7.10 System Information

Press ESC key \rightarrow select the "system information" in the right mouse button menu to enter the system information interface as shown in picture 4-38



Picture 4-38

System information interface mainly indicates the DVR Version, web address, system ID, the information of record files and the information of the built-in HDD.

Chapter 5 IE and Client Software Login

5.1 IE Plug-in download and installation

First add the IP address of the DVR as a reliable site of the system. For example, if the IP address of the DVR is 192.168.1.100, first open IE Attributes \rightarrow Internet Options \rightarrow Security Options for an ordinary XP system, as shown below. This can be set in 9 steps.

Internet Properties ? 🔀	Trusted sites ? 🔀
General Security Privacy Content Connections Programs Advanced Select a Web content gone to specify its security settings.	You can add and remove Web sites from this zone. All Web sites in this zone will use the zone's security settings.
Internet Local intranet Trusted ater Trusted ater Bestricted sites Oclick	192.168.1.100 Input IP Add Web sites: Colick Control Control
Irusted sites This zone contains Web sites that you This zone contains Web sites that you This zone contains Web sites that you Security level for this zone	Feinne
Custom Custom settings. - To change the settings, click Custom Level. - To use the recommended settings, click Default Level.	Require server verification (https:) for all sites in this zone Cancel the optional OK Cancel
Oclick Qustom Level Default Level Image: Cancel Apply	Security Settings Settings: AttiveX controls and plug-ins AttiveX controls and plug-ins AttiveX controls Disable Settings: AttiveX controls AttiveX controls Disable Settings: AttiveX controls AttiveX controls Disable Setting: AttiveX controls AttiveX controls Disable Setting: Setting: Setting: Setting: Sett
Notice: Enter the IP or Domain Name in the third step without the need to enter port number	Download signed ActiveX controls Disable Prompt Download unsigned ActiveX controls Download unsigned ActiveX controls Reset custom settings
	Reset to: Low Reset

After setup, enter the IP address in the IE address bar, and complete the automatic installation of the plug-in unit as prompted.

5.2 IE Login

After the plug-ins installation, (the login interface as shown in picture 5-1)enter the port, user name and password, then click "LOGIN" to view DVR remotely.

User login			
Port:	40001		
Username:	admin		
Password:	*******		
		▼ sub s	stream
	к	Cancel	

Picture 5-1

The successful login leads to live preview interface as shown in picture 5-2.Click the right mouse button into "preview control" to choose channel number to have the video link.



Picture5-2

Indicator	Function	Indicator	Function
LIVE	live	30	Intercom
PLAYBACK	Play back menu	•	Record
SETUP	Setup menu	PTZ	Auto
	1x1		Up,Down,Left,Right
	2x2	<u> </u>	ZOOM
	3x3	Ē	FOCUS
	4x4	O î	IRIS
	Full screen	- Em	PRESET
	Snap	W	CALL PRESET

5.3 IE interface

After logging in the client end successfully, the interface is as shown in picture 5-2

5.3.1 Menu Bar

Preview: After PC client end log in the system, enter the default live preview interface as shown in picture 5-2 Retrieval: Click "Retrieval" to review the DVR video files remotely and select to play some files. Click "Retrieval" after selecting the date and record type, and then select the event play in the event lists of the search results, meanwhile, use the play control bar at the bottom of the interface to control. As shown in picture 5-3, users could pause, stop, fast forward, slow play of the selected files. To download the retrieval files, tick and select the files ,then click "download" button, the files saving path is set in the local setting interface as shown in picture 5-5.



Picture 5-3

Setup: Click "setup" to pop up secondary menu: remote configuration and local configuration. select the remote configuration, as shown in picture 5-4

System Config	Display Setup	
📃 Display Setup		
🤤 Network Config	Main Interval	5 -
- 🤤 Channel Setup		,
System Setup	Spot Interval	2 •
😑 🤤 Record Config		
Record Setup	Ignore Videoloss	No
🖃 🤤 Event Setup		
🖳 🤤 Alarm Input	VGA Resolution	1280×1024@6(
🤤 Motion Detect		
- 🤤 Disk Error		
- 🔛 Pwd Error	Restore	Save
Video Loss		
User Manage		
		Exit

Picture 5-4

Notice	Only when DVR is in the preview main interface, its parameters
	can be modified remotely. The settings come into effect after the
	parameter savings are submitted to DVR end. The parameter
	modification in IE is consistent with the same modification in DVR
	end.

The remote configuration interface mainly indicates system configuration, recording configuration, events configuration, User Manage.

a. System configuration includes display setting, web setting, channel setting, $\log q$ uery, system setting. Click "System Configuration" \rightarrow "Display Setting" to enter display setting interface as shown in the below picture. Users can set the main display switching time, SPOT switching time, HDD loss ignoring, display resolution and OSD output device in the interface.

Setting Method is the same with that of DVR, please refer to 4.7.7.

🖃 🥃 System Config	Display Setup	
Display Setup		
	Main Interval 5	
	,	
System Setup	Spot Interval 2	
🖃 🤤 Record Config		
Record Setup	Ignore Videoloss No	
🖃 💭 Event Setup		
- 🤤 Alarm Input	VGA Resolution 1280x1024@6(
Motion Detect		
Disk Error		
Pwd Error	Restore Save	
Video Loss		
		Exit

Picture 5-5

Click "System Configuration" \rightarrow "Web Setting" to enter web setting interface as shown in below picture. Users can set the network mode in the interface; the relevant parameters are consistent with those of DVR end. Please refer to 4.7.4.

🖃 💭 System Config	Network Config	
Display Setup		
🖳 📃 Network Config	Boot Protocol	Static IP IP Address 192 . 168 . 1 . 220 Http Port 8000
	NetMask	255 , 255 , 255 , 0 Gateway 192 , 168 , 1 , 1 Media Port 40001
System Setup		Mahile Service Port 6000
🖻 🤤 Record Config	NTPServerAddr	128 . 250 . 36 . 2 InterCom Port 7123
Record Setup	MAC Address	aa - bb - cc - dd - ee - ff
🕂 🖳 Alarm Setup	Minor Change	
📖 🖳 User Manage	Minor Stream	Open - Channel All - Resolution CIF -
	Quality	Super High FrameRate 6
	DNS1	0.0.0.0 DNS1 0.0.0.0 V UPNP
		DDNSType CN3322 DDNS Domain http://www.3322.org
		DDNS Name User Name
		Password
	Email	Esmtp Server SMTP.domain.com SMTP Port 25
		From sender@domain.com To reciever@domain.com
		Password seesawee Restore
		Exit

Picture 5-6

Click "System Configuration" \rightarrow "Channel Setting" to enter channel setting interface as shown in below

picture. Users can set the channel name, PTZ protocol, PTZ Baud rate, PTZ address and the color in the interface. The Setting Method is consistent with that of DVR end.

		×
🖃 🤤 System Config	Channel Setup	
🖳 🤤 Display Setup		
- 🤤 Network Config	Channel Solution	
Channel Setup		
System Setup	Channel Name CH-01	
🖃 🤜 Record Config		
Record Setup	PTZ Protocol PELCO-D	
Event Setup	PTZ BaudRate 1200	
- 🤤 Alarm Input		
Motion Detect	PTZ Address 1	
Disk Error		
Pwd Error	Brightness 50 %	
	Contrast 50 %	
User Manage		
	Saturation 50 %	
	Hue 50 %	
	Restore Save	
	Exit	

Picture 5-7

Click "System Configuration" \rightarrow "System Setting" to enter log query interface as shown in below picture. Users can set system date format, time zone, system time setting, daylight saving time, device ID, system language, format option, auto lock in this interface. The Setting Method is consistent with that of DVR end.

🖃 🥮 System Config	System Setup				
🖳 Display Setup					
🖳 🖳 Network Config			_		
🖳 🤤 Channel Setup	Date Format	YY-MM-DD	 Time Zone 	GMT+08:00	
System Setup	DET Time	[chan]		E a lo a unda contra	
🖃 🤤 Record Config		ICIOSE •		Adjust with Local Time	
📃 💭 Record Setup					
🖃 🤤 Event Setup	DeviceID	0			
🤤 Motion Detect	Language	Kerean	7		
🖳 🤤 Disk Error			_		
- 🤤 Pwd Error	NTSC/PAL	PAL	·		
Video Loss	Auto Lock(Unit:Min)	0	7		
🦾 🤤 User Manage		10	-		
				Restore Save	
			-		
				E×it	1
1					

Picture 5-8

The recording configuration includes recording setting and recording schedule.

Click "Recording Configuration" \rightarrow "Recording Setting" to enter recording setting interface as shown in below picture. Users can set recording resolutions, definition, frame rate, sound recording, pre-recorded frame rate, superposition information and cycle covering in this interface. The Setting Method is consistent with that of DVR end. Please refer to 4.7.1 Basic Setting.





Click "Recording Configuration" \rightarrow "Recording Schedule" to enter recording schedule interface as shown in below picture. The recording schedule is mainly set to the recorder. The Setting Method is consistent with that of DVR end. Please refer to 4.7.1Recording Schedule.

b. Event configuration interface mainly indicates HDD error, password error, video loss, alarm input, motion detection. The HDD error, password error and video loss interfaces are almost consistent shown as the below picture.

🗄 🤤 System Config	Disk Error
🕀 🤤 Record Config	
🖃 🥌 Event Setup	Alarm output
🖳 🤤 Alarm Input	C Output1 C Output2 Output3 C Output4
- Ontion Detect	
Disk Error	E Reap
Pwd Error	
User Manage	∫ SendMail
Cool Hanago	Event Time 3
	Restore Save
	Exit

Picture 5-10

The alarm input interface is as shown in the below picture

		×
🗄 🤤 System Config	Alarm Input	
Image: System Config Image: System Config	Alarm Input Alarm 1 Copy To Sensor Type Always Open Record All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Alarm Output Output1 Output2 Output3 Output4 Beep SendMail Video Channl Close Start Preset 1 End Preset 1	
	Main Display Close Spot Display Close Event Time 10 Restore Save Exi	t

Picture 5-11

The motion detection interface is as shown in the below picture

		\mathbf{X}
🖭 🧔 System Config	Motion Detect	
🕀 🤤 Record Config		
🖃 🤤 Event Setup		
🖳 🤤 Alarm Input	Sensitive 3	
Motion Detect	Motion Area	
Disk Error		
- 🤤 Pwd Error	All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
Video Loss		
🦳 🤤 User Manage	- Alarm Output	
	Coutput1 Coutput2 Output3 Output4 EBeep SendMail	
	Main Display Close	
	Spot Display Close	
	Event Time 10	
	Restore Save	
	Exit	

Picture 5-12

c. User Management indicates the adding, deletion and modification of the users. User management interface is as shown in the below picture

E- System Config	User Manage
+ 💭 Record Config	
🖃 🥃 Event Setup	
📃 Alarm Input	Username
- 🤤 Motion Detect	admin
- 🤤 Disk Error	
🖳 🖳 Pwd Error	
Video Loss	
User Manage	
	Add Del Modity
	Restore Save
	P. 34
	Exit



The above Setting Method of the interface is consistent with that of DVR. Please refer to the Setting Method of DVR.

Select the local configuration, the interface is as shown in picture 5-14

Local Setting	5				×
	🔽 Show Video Info 🛛 [Date Format	YY-MM-DD	•	
Record Path	c:/			Browse	
Snap Path	C:			Browse	
	ОК	C	ancel		



The local configuration includes spot overlay characters, record path and snap path A.Live overlay characters indicate the displaying channel name set during the live preview. B.The record path indicates the saving path of the downloading record videos C.The snap path indicates the saving path of the screenshot images.

5.3.2PTZ Control

PTZ Control: the zoom, focus and iris control of PTZ.As shown in picture 5-2.

5.3.3 Video Switch

Under the state of live preview, the preview screen can be split by pressing the switch button of video window. It supports single screen, four screens, nine screens, 16 screens and full screen operation. As shown in picture 5-2.

5.3.4 Playback

Under the state of live preview, click the "Playback" button to enter record query interface. Click "seach" button after selecting the date and type of the files. Then select the particular event in the searched event lists to play. Meanwhile, users can operate the play control bar at the bottom of the screen to control (as shown in picture5-3) the pause, stop, fast forward, slow forward and so other operations. During the course of playback, the screen could be split. The device support single screen, four screens, nine screens, sixteen screens and full screen playback at present.

5.3.5 Snapshot

Under the state of live preview, click the "snapshot" botton, Can operate the snapshot of the current previewed picture. As shown in picture 5-2.

5.4 Client software login

Pls open the file"player.exe"(Department of the CD Files, the interface is as shown in the following image:

Dvr IP	0	. 0	1	ο.	0	🔲 Use domain
Dvr Port	40001					
Username	admin					1
Password						MinorStream
0 0	hinese			(• Engl	ish
	-				1 -	

Picture 5-15

User Name: DVR User Name(Defauted User Name is admin)

Password: DVR Password(Defauted PW is 0000000)

Minor Stream: After ticking \checkmark in this option, the stream of the system transfer is minor Stream. Otherwise, it is main stream.

Language:Language Options,Support Chinese and English Offline:Offline Play Function

The operation interface of the Client Software after logging is just the same of the interface on IE end.Pls just refer to the setting and operation method of IE

Chapter 6 Troubleshooting

1. What can I do if the system cannot detect the HDD?

A: Check if the power supply system is properly connected and data cable and power cables accurately connected.

2. We have changed the password but do not remember the new password, how can we access the system?

A: If you forget system password, please consult with the service personnel. Setting a easy-to-remember and safe password is much recommended. (If any security requirements, please do not try to set the simple passwords such as 000000)

3. We are not getting any video signal on the DVR, what is wrong?

A: Check camera video cable and connections; or check monitor video cable and connections; or confirm that the camera has the power and / or check camera lens setting.

4. What is the affect to equipment by DVR's heat?

A: The DVR has a fan to help it dissipate heat while it is running. Please place the DVR in a place where there is good air circulation and away from heat sources to increase stability and life of the DVR.

5. Why the Remote Controller can't work normally?

A: If the controller is pointing to the IR signal on equipment front panel, but the operation is still invalid, please check the batteries in remote controller, if above problems are excluded, please check the health of the remote controller

6. When my PC HDD is installed into DVR, does it work?

A: It works as long as the DVR system supports the HDD. But note that the data of the HDD will be lost when DVR is operating.

7.Can we record while playing-back?

A: Yes, you can do it. The system supports that you record while playing-back.

8.Can we erase some recorded file from DVR?

A: Considering the safety factor, you can't delete the recorded file directly from the device. When you actually erase all the recorded files, please select HDD format function

9.Why can't login DVR client end?

A: Please check if the web connection configurations are all right and the RJ-45 interface connection is ok. And check if the account and password are right or not.

10. There is drag mark on screen when real-time monitoring in client end, even short delay?

A: It's normal if less than 5 seconds;

11. Cannot find any information record during the playback?

A: please check the harddisk data cable connection, and whether system time is adjusted illegally. Try it several times, and test whether the harddisk is damaged if above still appears.

12. DVR cannot control the PTZ after setup?

A: Please test for the following reasons:

- ① Front PTZ failure
- 2 PTZ decoder setting, connection and installation is incorrect
- ③ PTZ incorrect setup in the DVR
- ④ PTZ protocol decoder and DVR does not match each other
- ⑤ PTZ decoder and DVR address does not match each other

⁽⁶⁾ When multiple decoders are connected, 120 ohm resistance is needed on the most remote end of PTZ decoder

AB line, to eliminate reflex and impedance matching, or PTZ control will not be stable.

13. Motion detection does not work?

A: Check the motion detection time and motion detection zone and make sure that they are right setup, and check the sensitivity setting.

14. Why does the Buzzer keep sounding?

A: Please check if motion detection is on and the system has detected motion, make sure the HDD is being detected and has sufficient space available; check if video has lost etc.

Appendix 1 Domain name application

1) Create account

First open www.dyndns.com, and click the Create Account option:

Fill in the account information.

Create an ac	count or log in to continue
Username:	dvrtest001
Password:	• • • • • •
Confirm password:	•••••
Email:	wing225@163.com
Confirm email:	wing225@163.com
Subscribe to:	 DynDNS.com newsletter (1 or 2 per month) Dyn Inc. press releases
Security Image: 🕖	Remove HTML formatting from email
✓ I agree with the <u>a</u>	cceptable use policy (AUP) and privacy policy. Create Account

After confirmation, the system will prompt that the verification message has been sent to the designated mailbox, as shown below:

One more step to go
We've sent an email to wing225@163.com, to verify your account. Please check your inbox and click on the confirmation link.
If you do not receive the email in the next few minutes you can try <u>resending it</u> .
Thanks for choosing DynDNS.com!

2) Activate account

Log in your mailbox and open the confirmation link sent from support@dyndns.com, as shown below:



Click the link below and enter the website to activate the account.

3) Login

After successful activation, open the home page <u>http://www.dyndns.com/</u> to log in. After successful login, click "Services" \rightarrow "Dynamic DNS", as shown below:

C DynE	DNS.com					Logged In User: dvrtest001	
2 by Dynami	About	Services	Account	Support	News		
	Need	l help? Get acces	s to phone support	with <u>Dynamic DNS</u> F	Pro.		
Services	Services						
Domain Services							
MailHop Services	We offer you superior do management, world-clas	We offer you superior domain name services (DNS), high quality domain Why DynDNS.com - why you should choose us Tacharlas Our starts and ophysical Tacharlas					
DNS Reliability	monitoring. All of our services include free email technical support						
Dynamic DNS Pro	where you speak to a highly trained engineer rather than a call center reading a script off of a screen.						
Internet Guide							
SSL Certificates	Domain Services						
Pricing							
My Cart Oitens						P	
	Dynamic DNS	Cus	stom DNS	Domair	<u>n</u> §	Spring Server VPS	
Visit the forum for DynDNS.com topics.	Service to track your	r Our dyr	namic and static	<u>Registrat</u>	ion	From Web Servers to	
· ·	dynamic IP address.	DNS mar your	nagement tool for own domain.	Register new do transfer existin	mains or G g ones.	aming Servers, Spring Server VPS is your	

4) Application for free domain name

After entering the "Dynamic DNS Services" screen, click "Dynamic DNS Free" to apply for a free dynamic domain name, as shown below:



Enter the "Dynamic DNS Free" screen, as shown below. Click



Dynamic DNS Free	
Dynamic DNS Free (DDNS) allows you to create a hostname that points to your home or office IP address, providing an easy-to-remember URL for quick access. We also provide an update	Get Started
mechanism which makes the hostname work with your dynamic IP address. We continue to offer this service free to the Internet community as we have done so for nearly 10 years.	Manage Hosts
Capabilities and Features	
 Get five (5) hostnames in <u>88 available domains</u> for free. 	Screenshot
 Forward web requests or mark host offline for maintenance or downtime. 	Annual (Annual (A
 Configure MX records for flexible mail routing. 	Without and Contraction of Fair series and voters in the series and the series and the series and the series of th
 Update host using <u>ddns update clients</u> for a wide variety of platforms. 	Annual An
 Modify DNS TTL values for fast propagation or reliable static IP caching. 	[1] (14) the self-lakes of exchange here: 8 addees (46)
 Deliver your DNS records to 5 DNS servers in 5 tier-1 datacenters around the globe. 	

• Query volume up to 648,000 queries/month

Enter the hostname, select the service type and then enter the dynamic IP address (usually being the dynamic IP address of the network of the DVR host) to be tied in the Add New Hostname screen, as shown below. Complete the application for the dynamic domain name as prompted.

Add New Hostname		↑ Host Services
Note: You currently don't have any features. Paying for an Dynamic D	y active <u>Dynamic DNS Pro upgrades</u> in your account. You NS Pro upgrade will make this form fully functional and w	cannot use some of our Host Service vill add several other features.
Hostname:	dvrtest001 . dvrdns.org	
Wildcard Status:	Disabled [Want Wildcard support?]	
Service Type:	Host with IP address [?] Webliese Redirect [2]	
	O Offline Hostname [?]	
IP Address:	59.40.212.55 Use auto detected IP address 59.40.212.55.	
	TTL value is 60 seconds. Edit TTL.	
Mail Routing:	Yes, let me configure Email routing. [?]	
	Add To Car	t

Shopping Cart			
dvrtest001.d	vrdns.org added to cart. Ye	ou must checkout to activate.	
our cart contains free services only. You	u will not be asked for credit o	ard information.	
F Upgrade Options			
Free accounts allow only five Dynamic • To add more and enjoy additona • To get Dynamic DNS for your o	DNS hosts. <u>benefits</u> for only \$15.00 per vn domain , use <u>Custom DNS</u>	year, <u>purchase Dynamic DNS Pro</u>	à
Dynamic DNS Hosts			
dvrtest001.dvrdns.org	-	remove	\$0.00
Please enter coupons in the box belo	ow and click "Add Coupon".		
Add Coup	on	Sub-Total:	\$0.00
		Orde	r Total: \$0.00
Vould you like to print an estimate/quote?			
,			
			Next >>

Free Services Chec	kout			
Once you have confirmed the co	ntents of your cart	your services will be instantly activated.		
	Service		Period	Price
Dynamic DNS Hosts				
dvrtest001.dvrdns.org		-		\$0.00
			Sub-Total:	\$0.00
			Activate Serv	ices >>
st Services			Add New Hostname	- <u>Host Update</u>
	dvrtest00	1.dvrdns.org successfully activated		
Hostname	<u>Service</u>	Details	<u>Last U</u>	odated
est001.dvrdns.org	Host	59.40.212.55	Dec. 01, 2009 10:17	7 PM

Appendix 2 Player

Pls open the file "player.exe" () in the CD Files, the interface is as shown in the following image:



NO.	Function	NO.	Function
1	Image print	11	Stop
2	Image save	12	Play speed
3	Play bar	13	Open file
4	Fast backward	14	Display mode
5	Backward play	15	1~16 Channel
6	Step backward	16	Audio
7	Step forward	17	2:about
8	Play		Sifull screen
9	Fast forward		u :minimize
10	Pause		CExit

Appendix 3 System connection diagram



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