

7-INCH-IN-ONE DVR

USER MANUAL

Please read this user manual carefully before use the product.



PREFACE

Thank you for choosing our company produced the DVR 7-inch-in-one DVR, hope our products will bring you security and convenience, we will be happy to provide you with the best service.

This manual applies to DVR 7-inch-in-one DVR products that do operate a reference to this manual 7-inch 4-in-one network to do DVR, for example instructions, the different types of products will be slightly different configuration, please to prevail in kind.

This manual may contain technical inaccuracies or product features and operation of inconsistency or typographical errors, sincerely hope that you can view timely feedback to us, in future versions, we will be enriched and improved.

For your convenience, skilled operation of the product and use this product to better serve you, we recommend that you carefully read the contents of this manual!

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Chapter 1 Introduction to the environment and product applications

1.1 Application Environment

Hardware environment

- ◆ Power: 12V DC power supply;
- ◆ Connection: Cat 5 cable, standard AV video cable
- ◆ Temperature: operating temperature should be maintained at between -10 °C ~ 55 °C, hot or cold, or more than the operating temperature limits may cause the device to work properly, it is strictly prohibited equipment installed above the heat source.
- ◆ Humidity: Humidity should be controlled at 10% to 90% range, not the equipment exposed to rain or humid environment, moisture can damage the internal components, do not install the equipment near water
- ◆ Ventilation: the equipment installed in a well-ventilated place, pay attention to dust;

Software Environment

Operating System: Embedded LINUX system;

1.2 Function Introduction

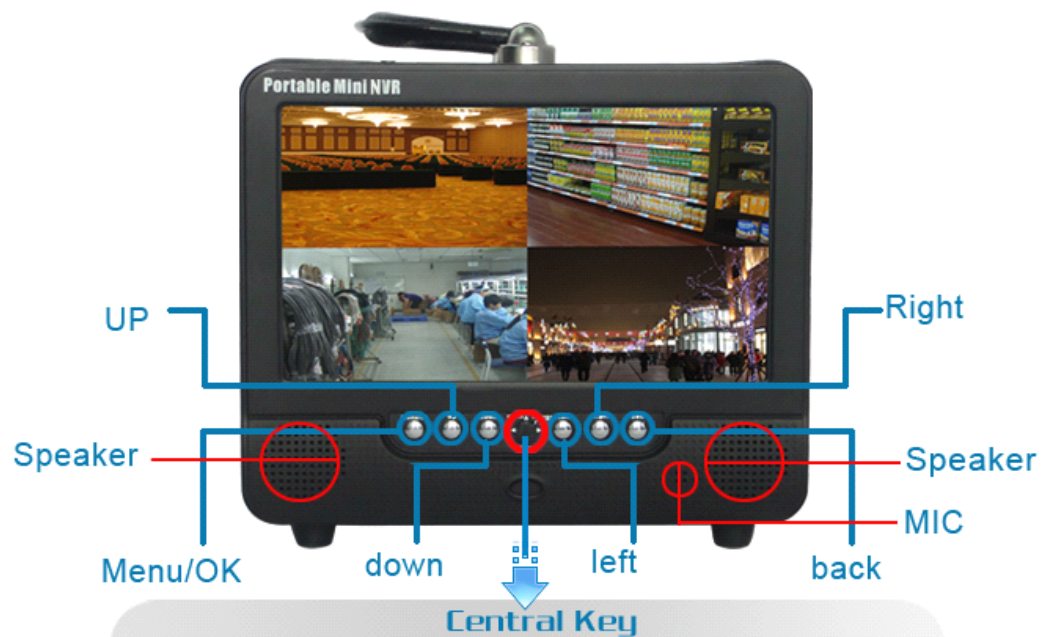
- ◆ Standard H.264 compression algorithm, compression ratio, and flexible processing
- ◆ 1 channel VGA and one BNC video output
- ◆ 4-way audio and video sync input, 1 channel RCA audio outputs
- ◆ support RS-485 interface, control the PTZ, scalable, multiple decoding protocol;

- ◆ Support 4 channel playback simultaneously recording
- ◆ Support PAL / NTSC video signal input
- ◆ Support audio talkback function (built in high sensitive micro phone)
- ◆ Support remote real-time monitoring of mobile phones (Windows Mobile, Symbian, iphone, Android, Black Berry);

- ◆ Supports multiple DDNS (peanut shells, 3322, dyndns)
- ◆ TB level support large-capacity hard disk
- ◆ Supports mouse drag local area digital zoom
- ◆ Multi-level user rights management, to ensure system security
- ◆ Through the USB interface (such as ordinary U disk and removable hard disk, etc.) for backup;

- ◆ Client computer can be downloaded through the network back up files on the hard disk;
- ◆ Store data in a proprietary format, can not be tampered with data to ensure data security.
- ◆ Parameters can be set through the WEB page, view real-time video and audio signals, see the DVR status;
- ◆ You can control the PTZ network camera rotation and control parameters, such as aperture size, focal distance, etc.;
- ◆ Variety of recording modes: manual, alarm, motion detection, video block, etc., and have a pre-recorded feature;
- ◆ Video playback you can display the exact time the event occurred
- ◆ Single screen full screen playback option for any region in the enlarged region of video playback;
- ◆ Can be connected to the infrared, smoke detectors and other alarm input device as an alarm;
- ◆ Pre-recording function with alarm, the alarm can be pre-stored video data in advance, pre-recording time can be set;

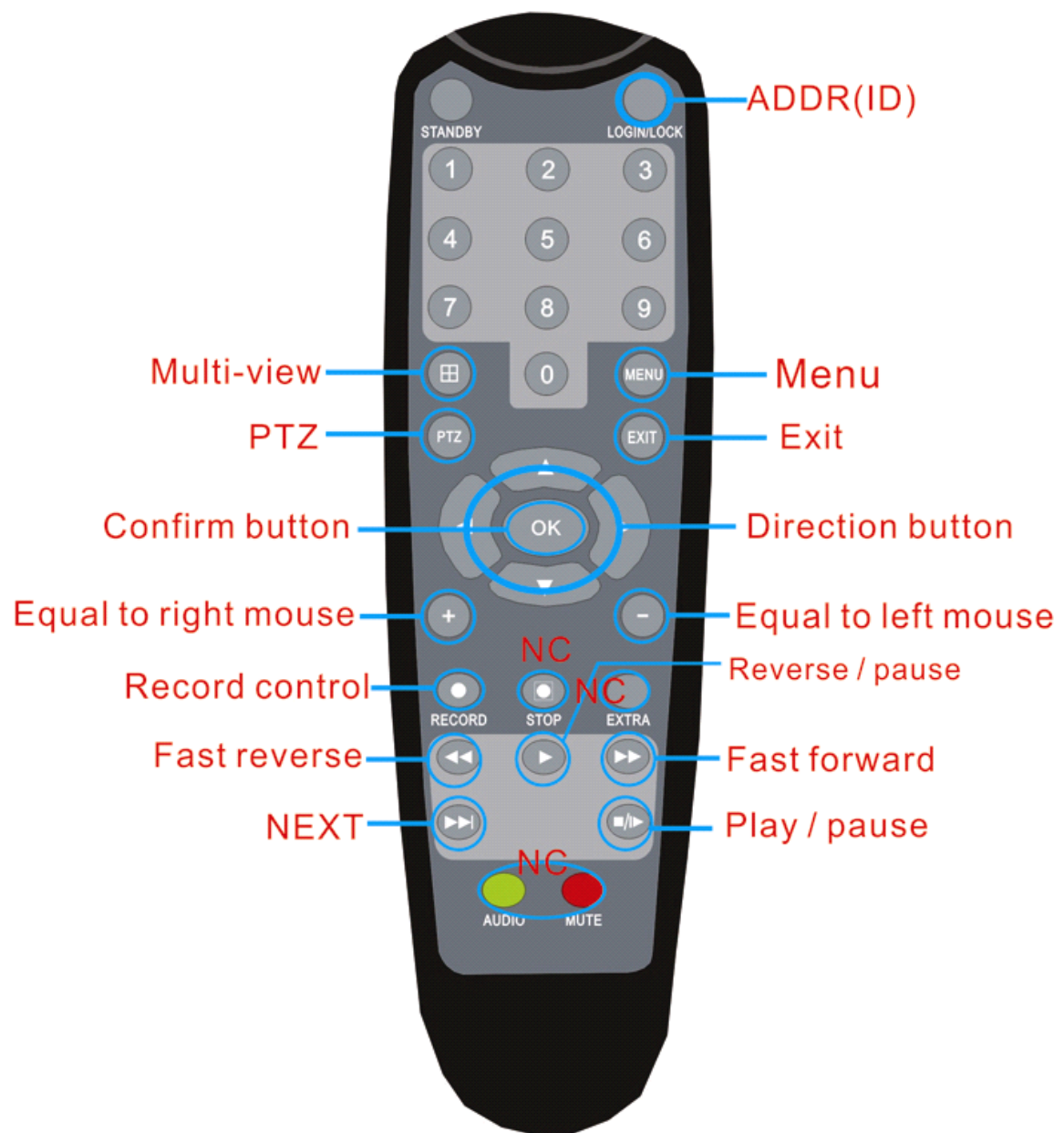
1.3 Interface Introduction



- ⊙ Down : Turn on /off screen
- ⊙ Left : decrease-
- ⊙ Up : mute
- ⊙ Right : increase +
- ⊙ Down : menu



Remote control instructions



1.4 Installation and Connection

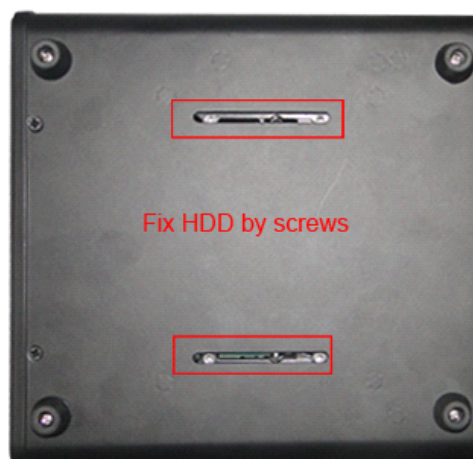
1.4.1 Installation of HDD (SATA interface)

Open screws of the back pannel,put the HDD in the slot till the bottom.Close pannel.Show in picture:

Open screws of HDD port at back panel,Insert HDD till the end, and close back panel



In order to prevent HDD fall off, we have screwhole at the bottom to fix it



1.4.2 Connection

Connect well like picture showed of back panel. It with wired and wireless mode,when wireless enabled it is wireless,when closed it is only wired but with option.Both of those modes can use together. Power on after connect well.

Notice:In order to prevent DVR please do not shut down power directly.Can click Main menu>management tool > shut down device

Chapter 2 Basic Settings

2.1 Log in and setup

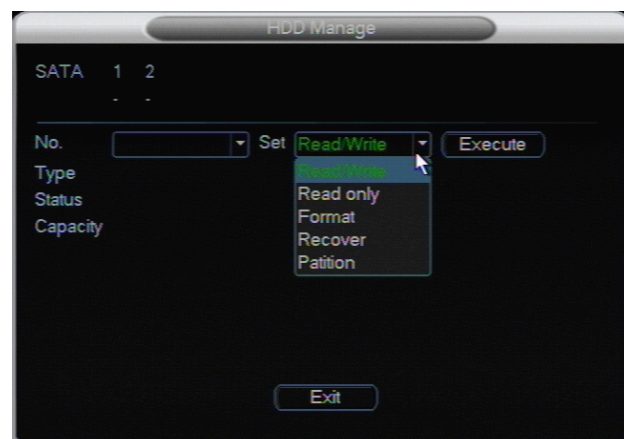
After log in,you can do settings by mouse,button and remote controller.First system will notice log in.Default user name is : admin and guest,password is 123456 . Users can manage by



click Main menu > System settings>Account management.Show in picture:

2.2 HDD Optimize

Please format disk when first time using.Then it can optimize HDD installation. Settings:
Main
menu>Management>HDD



management. Show in picture:

Also you can set HDD types

Read only and Read write can be searched. Only read write can install file. When recording please make sure to set in read write type.

2.3 Time settings

Main menu > System settings >
general settings



2.4 Channel Name management

Main menu > System settings >
Display



Chapter 3 Recording function

3.1 Recording settings

Main menu>Recording function>Schedule

Default recording mode is continuous 24 hours recording.

Enter schedule to do settings

Channel: Select channel to do settings.All channels please select FULL

Pack duration: select recording time

Pre-record: set pre-record time

Record control: click ● start settings.Option of schedule,manual, close

Date: select date to do settings.For all please select FULL

Schedule:recording types in different time of channels. Select ■ for normal,motion detection,alarm.Can select multiple channel.6 time schedule option.Same recording status in different time can be same,time range: 00 :

00 ~ 24 : 00.Click save after settings finished

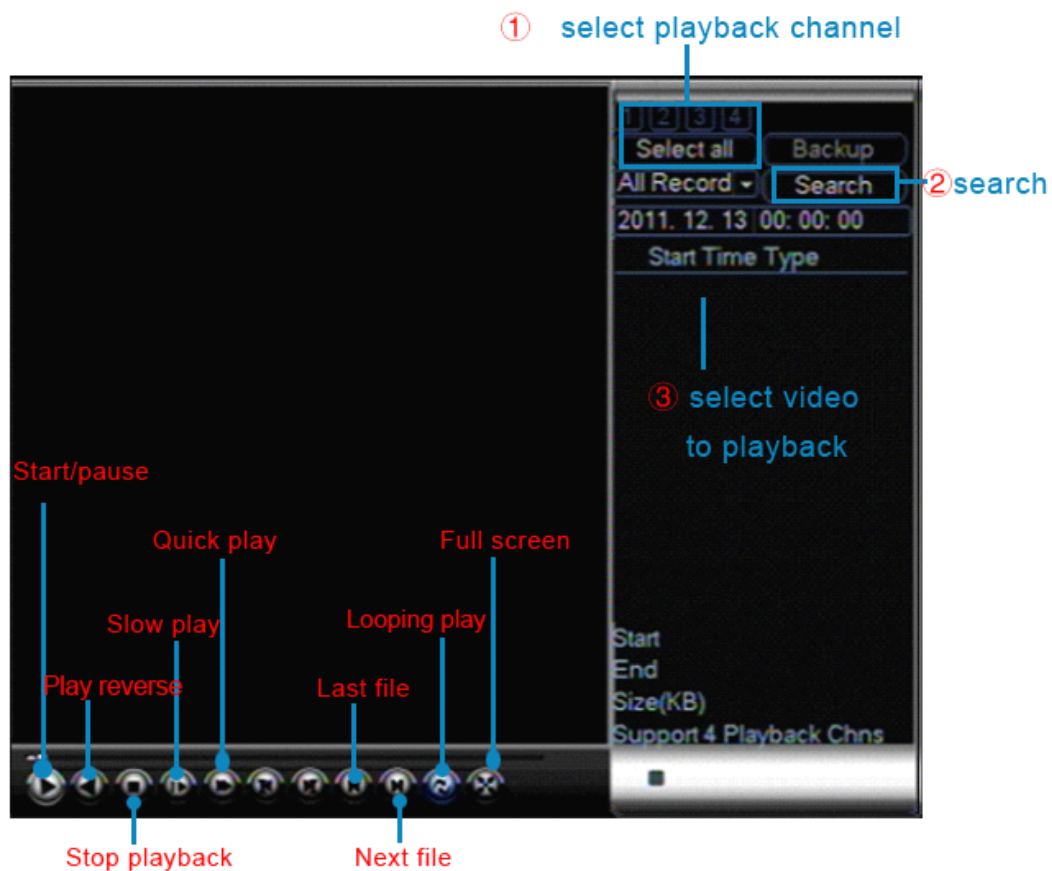
Quick setup

- 1.You can copy settings to other channel.Like: after setting channel click copy button and turn to channel 5 to paste.
- 2.You can save all settings together or separately

Notice:

After copy datas to other channel.The copy,paste and default function still workable after adjust parameters.Difference is when paste,you can only copy or paste same type settings.

3.2 Recording playback



3.3 AV synchronization recording settings

Main menu>System settings>Encode

Select invert

Video/Audio.

After select, it can
record.

synchronization

when start recording



Chapter 4 Network settings

Main menu> system settings> Network settings

【IP address】 default IP address is : 192.168.1.108

【DHCP】 ■ for dynamic ip
address distribution

【TCP port】 3G phone
port,default is 34567

【HTTP port】 WEB port,default
is 80

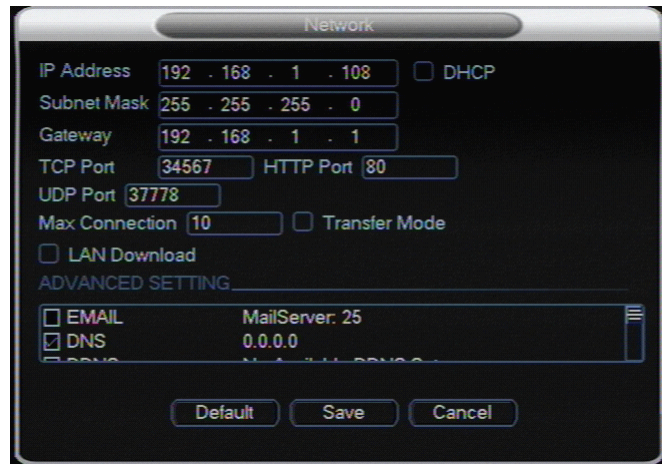
【UDP port】 default is 37778

【Netowrk user connection】

between 0~10.No network user connection when select of 0 ,max is 10

【Network transmission QoS】 ■ for selection. 3 Mode of: quality first, fluency
first and self-adapt

【LAN download】 ■for selection of transmission first (remote view and
download).Local view with effect



4.1 Advanced Settings

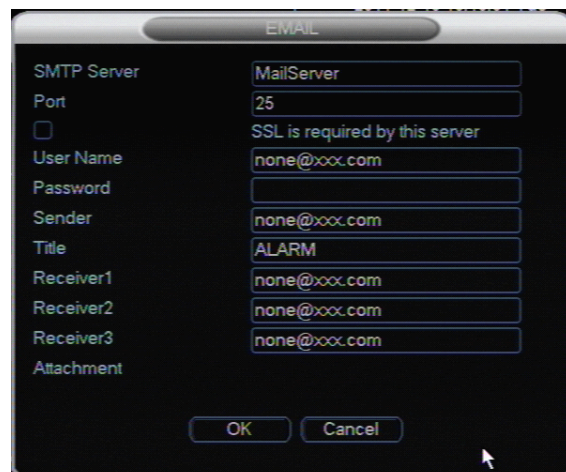
4.1.1 Email settings

【SMTP server】 SMTP server for
configuration.Like: smtp.xxxx.com
Port:usually default of 25

【User name】 email address of user

【Password】 email password

【Sender】 email address of sender



【Title】 email title after alarm

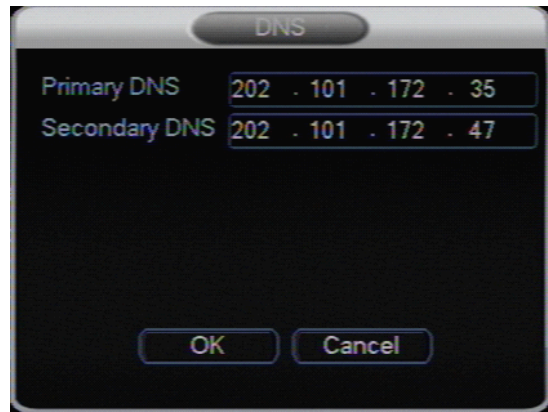
【Receiver】 receiver's email address

Notice: if it is faux function email, when fill in user name please add suffix(like: xxxx@yyyy.com).Otherwise,do not need to add suffix(like:xxxx)

4.1.2 DNS settings

【Primary DNS】 according to local DNS address to set up

【Secondary DNS】 according to local DNS to set up



4.1.3 DDNS settings

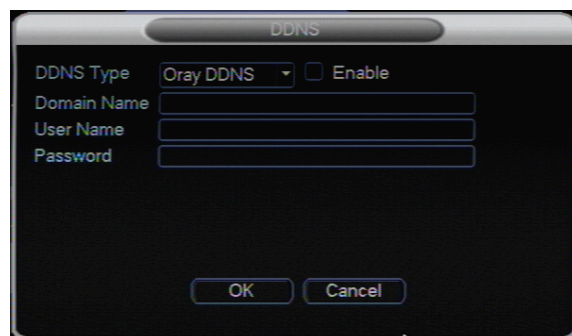
【DDNS type】 DDNS service type;

【Enable】 Select invert to enable;

【Domain name】 Bonding domain name;

【User name】 user name for applied;

【Password】 password for applied server port;

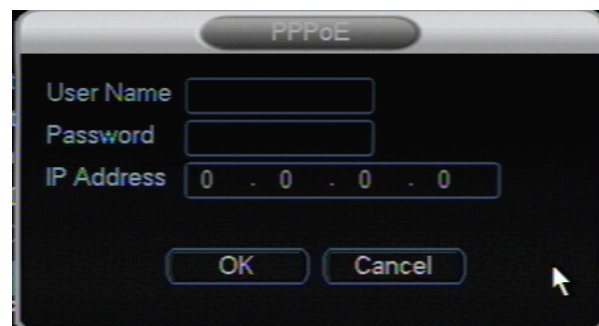


4.1.4 PPPoE Settings

【User name】 ADSL user name;

【Password】 ADSL password;

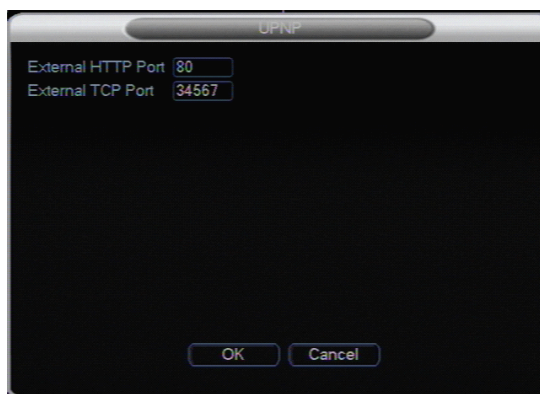
【 IP address 】 distributive IP address after successful dial;



4.1.5 UPnP Setting

【 External HTTP Port 】 The external http port mapping in router as the same as the device http port.

【External TCP Port】 The external TCP port as the same as the device TCP port.

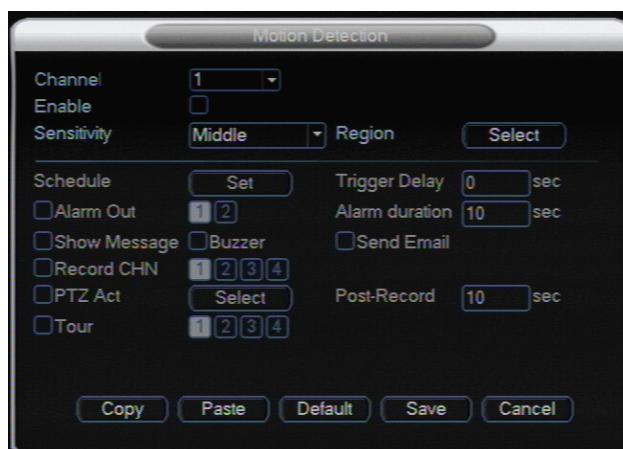


Chapter 5 Alarm Setting

5.1 Motion Detection

Main Menu>Alarm>Motion Detection

Through analysis video image, start dynamic detection alarm when the system detects preset sensitive mobile signal come out

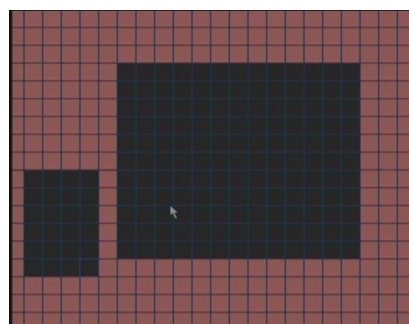


【Channel】 choose the channel for setting dynamic detection area)

【Enable】 function start switch, anti-display ☒ means choose the one)

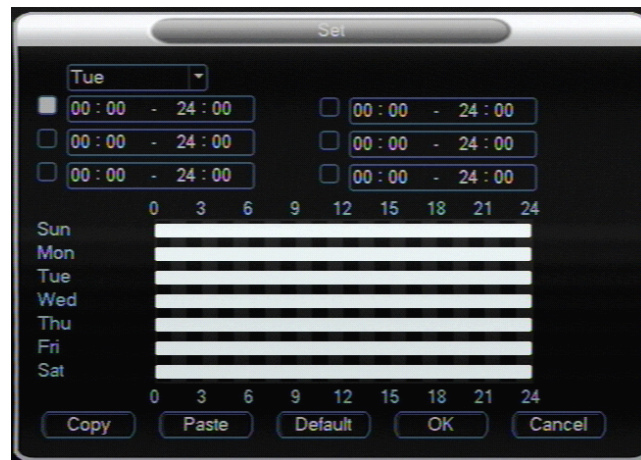
【Sensitivity】 There are six options: Lowest, Lower, Middle, High, Higher, Highest.

【Region】 396(22*18) grid area can be set, pink displayed grid area as dynamic detection area, black displayed grid area as



undefended area

【Schedule】 choose date of the defended setting,working or non-working day options available,6 periods of time options for defended setting,time setting with no repeat needed,display defended time range as straight line image,defended setting time can be quickly copied to the other dates



【go shaking】 in the condition of dynamic detection,to set time range of shaking function,time range between 0-600s;

【Alarm out】 when the dynamic detection begin,start linkage alarm output interface's outside connected equipment,alarm output channel available,can be chosen again.

【Alarm duration】 when dynamic detection ended,output a period of time delay paused,time range between 10-300 s;

【Show Message】 Anti-display■means screen hint allowed,when alarm signal happen by setting the linkage motion displayed in the screen

【Buzzer】 Buzzer alarm start switch(default off)

【Send Email】 Anti-display■means be chosen,when alarm signal happens by setting send e-mail to the specified address;

Mail address which sent by alarm is presetted e-mail address of chapter 4 ,for detailed setting procedure please read the chapter 4,Network setting > Advanced Setting > Email setting

【Record CHN】 Anti-display ■ means linkage alarm video start,when alarm signal happens to set video start channel,meanwhile,choose detection video in video setting.To choose lasting video in video control;

【 PTZ Act 】 That enabled the anti-PTZ linkage was ■, PTZ linkage channel can be set to achieve the preset point called the point between the cruise, patrol track (where the PTZ control and preset settings such as cruise trajectory parameters);



【 Post-Record 】 That when the motion detection delay at the end of an extended period of time to stop recording, the time in seconds, the range of 10 to 300;

【Tour】 Anti expressed alarm when significant ■ round robin, round robin can be set to start the channel,

5.2 Camera Masking Alarm:

Main Menu> Alarm> Camera Masking

When someone maliciously block the lens, the image can not be on-site monitoring, block by setting the alarm, you can effectively prevent the occurrence of this phenomenon, or due to other causes of the light output of a single color video screen, selectable alarm output, the screen prompt, PTZ linkage occurs when the lens is blocked to approach

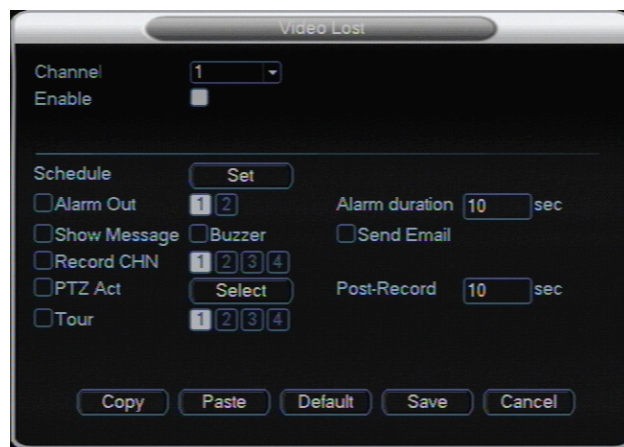


The feature set can refer to the above set of dynamic detection and alarm。

5.3 Video Lost Alarm

Main Menu > Alarm > Video
Lost

Loss occurs when the video
channel, selectable alarm
output or tips on the local host
screen video lost message

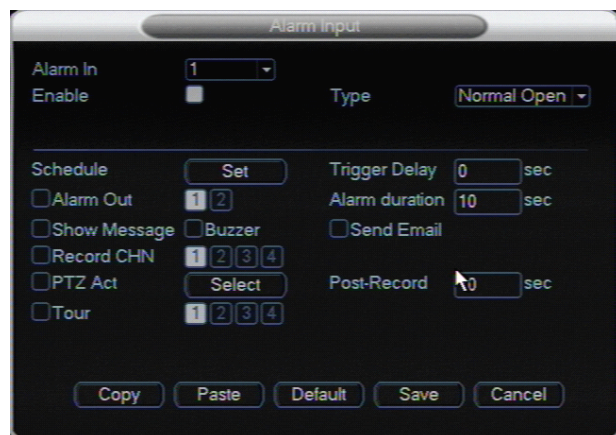


The feature set can refer to the above motion detection alarm can be set
with reference to the above feature set motion detection alarm set

5.4 Alarm Input

Main Menu> Alarm> Alarm Input

Users can set for each
channel, respectively, after save,
but also for all the channels you
want to set all the settings to
save after a good uniform



【Alarm Input】 Select specified
alarm channel number;

【Enable】 to enable the function enable switch, anti-display■means being
selected;

【Type】 According to the type of alarm options can be set normally open or
normally closed;

【Schedule】 Set same as the “Motion Detection”;

【go shaking】 the alarm input jitter is set to the time interval jitter function,

the range of 0 to 600 seconds;

【Alarm Output】 Start alarm input port external linkage alarm output devices, optional alarm output channel;

【Alarm duration】 that when the alarm output end of the input and output for an extended period of time to stop, the range of 10 to 300 seconds;

【Show Message】 that allows the anti-screen display ■ Set an alarm signal when the screen has a joint action;

【Send Email】 ■ that was selected when you set an alarm signal to the specified address to send e-mail;

【Record CHN】 Channel linkage alarm recording was ■ that enable, set an alarm signal when the video channel is enabled, while in the video settings, select the test video, video control, select the Always video;

【PTZ Act】 that enabled the anti-PTZ linkage was ■, PTZ linkage channel can be set to achieve the preset point called the point between the cruise, patrol track (where the PTZ control and preset settings such as cruise trajectory parameters);

【Post-Record】 When the alarm input end of the delay, the video extension of time to stop, the range of 10 to 300 seconds;

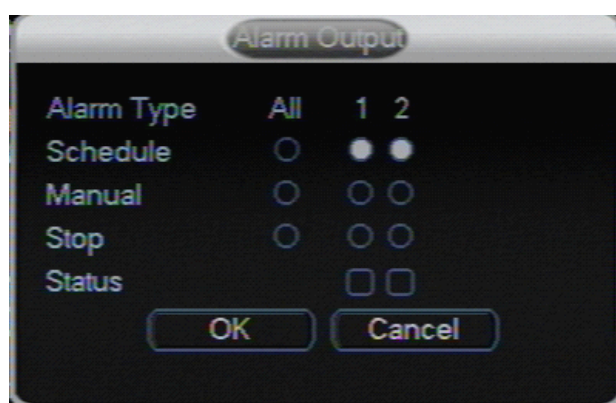
【Busser】 Alarm buzzer alarm switch is enabled (default off);

【Tour】 Anti expressed alarm when significant ■ round robin, round robin can be set to start the channel;

5.5 Alarm output

Main Menu> Alarm> Alarm
Output

【Alarm Type】 Two types alarm, "all" means be selected at the same time 2 channel output, "1", "2", represent channel



1 and channel 2 output

【Schedule】 was that the anti-selected, select the "full" ● 4-way while the startup configuration, said alarm output, select "1" ●, "2" ●, representing 1 way, 2-way configuration alarm output;

【Manual】 was that the anti-selected, select the "full" ● that there are always 2-way alarm output, select "1" ●, "2" ●, representing the first way, there is always the first 2-way alarm output

【Stop】 to turn off the alarm output

【Status】 That the current state of alarm output device

5.6 Abnormity

Main Menu> Alarm> Abnormity

Exception handling functions, as shown, select the type of configuration anomalies and linkage action. Enable the "Enable switch", when the abnormal event, the system can be linked alarm output, the screen prompts, send E-mail and other

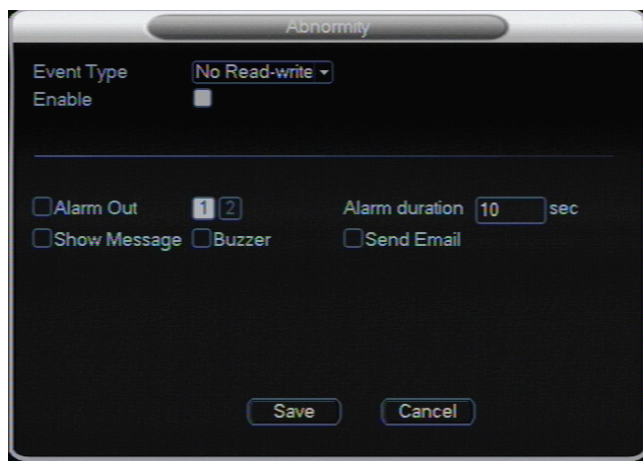
means

【Event Type】Abnormity type can be set: No Read.Write Disk, Disk Error, Disk No Spare, Network Disconnection, IP Conflicted;
No Read Write Disk: Hard disk recorder not connected with hard disk

or hardware problem,system do not find hard disk;

Disk Error: hard disk problems,system failed to recognize hard disk;

Disk No Spare: no free storage space for hard disk;(after selected interface tip for typing minimum number-percentage of left space);



Network Disconnection: hard disk recorder network connection off line or network connection error;

IP conflicted: hard disk recorder network connection set fix IP address,there are other same device setting IP addresses in network,IP conflict occur

【Enable】 function start switch,anti-display■ means selected;

【Alarm output】 Start linkage alarm output interface's outside connection device when exceptional incident occur,alarm output channel option available,can be selected again;

【Show Message】 anti-display■means screen tips allowed,alarm signal occur by setting to enable linkage motion in the screen;

【Send Email】 anti-display■means selected,alarm signal occur by setting to send e-mail to specified address,

【Alarm duration】 alarm output time delay by setting ,range between 10-300 s;

【Busser】 buzzer alarm start switch(default off);

Chapter 6 PTZ Setting

Set strike machine address;make sure

dome RS485 A, B line and the

DVR interface RS485A, B line

properly connected(Note that A is

positive, B is negative); In the DVR menu settings accordingly, detailed



set Main Menu -> Setting -> PTZ

【**Channel**】 selected dome camera, access to the channel;

【**Protocol**】 to select the appropriate type of ball machine brand agreements, built-in multiple mainstream protocols;

【**Address**】 is set to the corresponding address of the ball machine, the default is 1;

Note: The address here must address with the ball machine is consistent, otherwise it can not control the ball machine;

【**Baudrate**】 choose to use the ball machine baud rate, the corresponding channel can control the PTZ camera and the default value is 9600;

【**Data Bits**】 5,6,7,8] have four options item, the default is 8;

【**Stop Bits**】 have two options for items 1, 2, default is 1;

【**Parity**】 is divided into: none, odd parity, even parity, mark parity, space parity, the default is no

Chapter 7 client terminal operation

7.1 IE client settings

Must ensure you have installed the Microsoft IE6.0 or above version browser and install the Directx9.0 or above

◆ IE browser, download the press as to prevent a control set operation;

1.Open the IE browser, click on "Tools", pop up the window;

2.Click "Internet

Options" pop-up graph

window, select the

"Security" tab;

3.Click the "Custom

Level", the pop up

window, please refer to

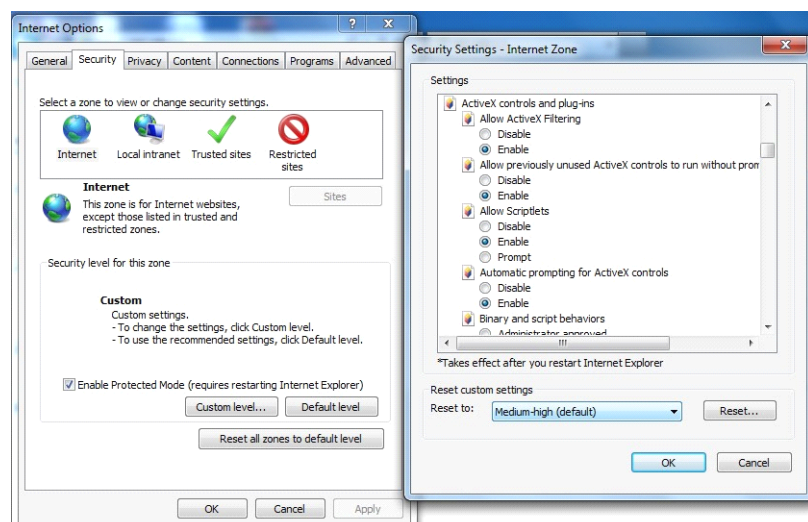


Figure Enable all "ActiveX controls and plug-ins" under the function;

4. Click "Finish" to determine the setting;

◆ other plug-ins or controls to prevent anti-virus, turn off the firewall and all anti-virus software.

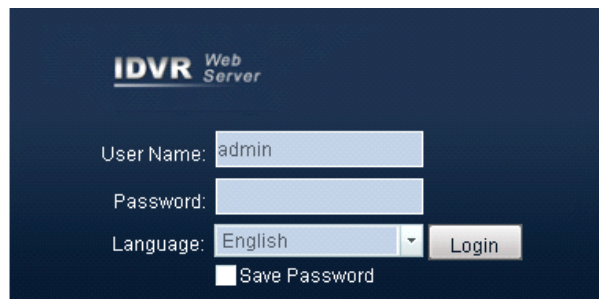
Note: When you first log on DVR, debugging and browsing through the various functions and the use of normal, if you need to ensure the IE security, you can directly restore "Internet zone security level" to set the default level or from other levels

7.2. Login

LAN: input IP address and port of the device in IE browser(default IP: 192.168.1.108:80), example: <http://192.168.108:80>, enter in the Login interface.

If this is the first time Log in via IE, it will indicate plug-ins must be installed.

Login User name and password is same with client-side. Default administrator user name of the DVR is admin, password:123456, please change user name and password in time.

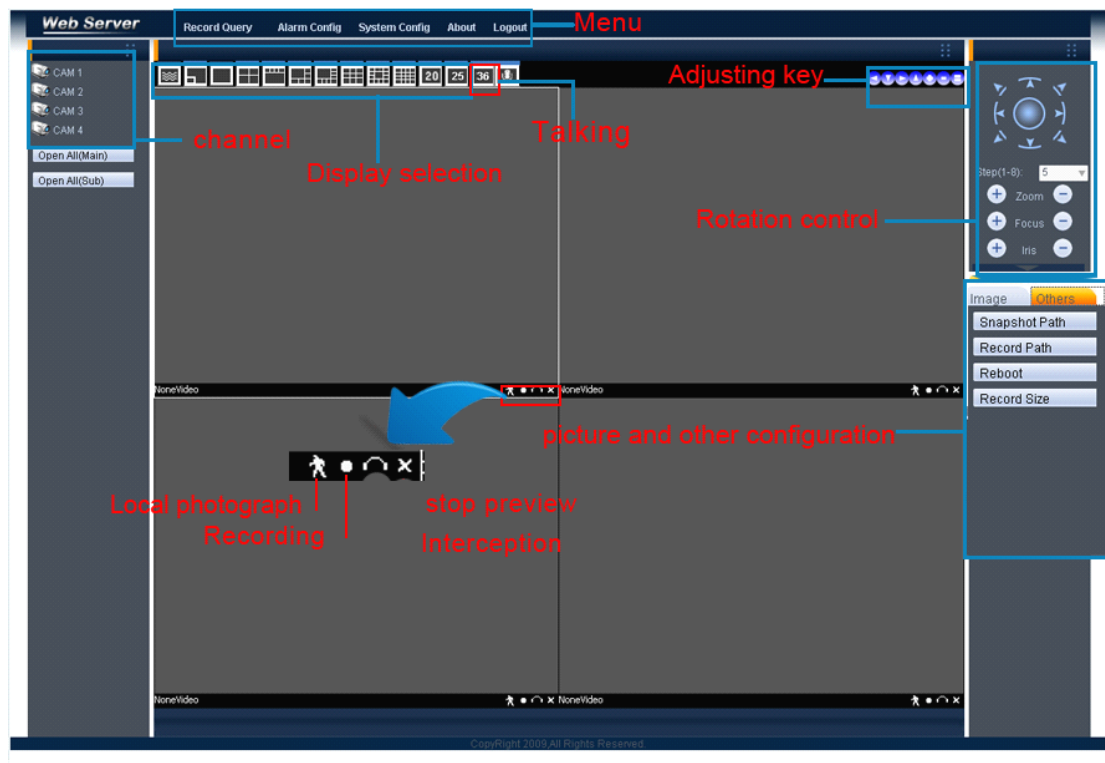


Note:

1. According to connection introduction in user manual and make sure DVR access to network.

2. Set IP, subnet and gateway for PC and DVR, (if there with a router, the gateway and subnet must be set), the DVR network configuration please refer to Chapter 4.

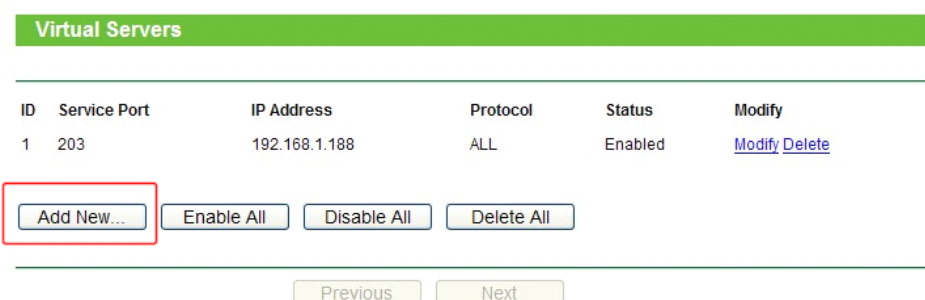
7.3 Web client-side



7.4 Web client-side remote operation via WAN.

Port mapping in router, steps as below:

1.Type in 192.168.1.1or 192.168.0.1 in IE browser Input User name and password in the appeared window, the default user name and password are: admin, then add server port of the IP in router“Forwarding rules” >“Virtual server”, please refer to the picture(right picture).



2.DDNS setting, set DDNS and user name, password you already registered in network configuration>DDNS setting. After finished configuration, input DDNS address from IE browser, remote operation via internet will be realized.



Operate interface same with web interface in LAN.

Chapter 8 Mobile phone Monitoring

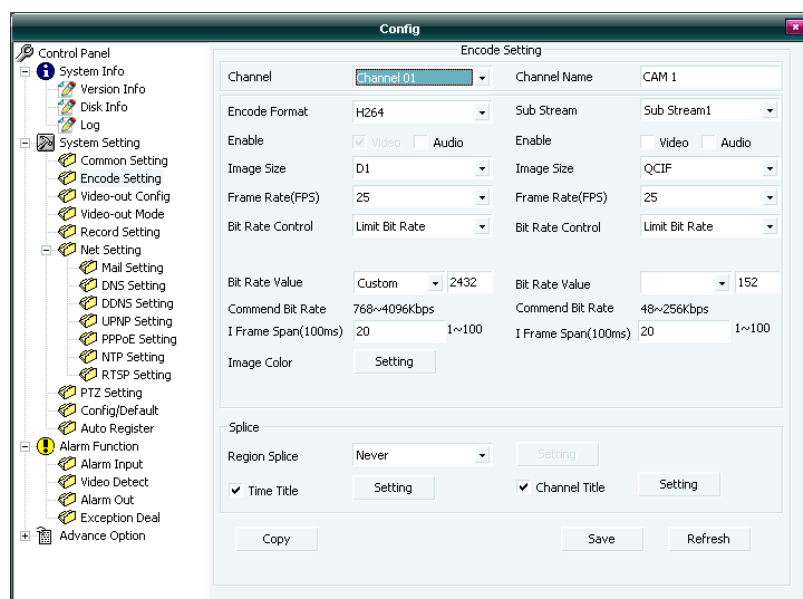
Take the Android mobile phone as a sample:

8.1 Encode setting

Before use mobile phone monitoring, please do a setting to the DVR which will be monitoring, in order to suitable for mobile phone(it has lower performance and network state). The video encode and user management must be set, and the setting could be completed via WEB or DVR local setting. Below we set via web client-side.

1.Select Video/Audio

2. Setting encode parameters



8.2 Obtain COOL DDNS

There is some difference between COOL DDNS and other DDNS, COOL

DDNS with registration function.

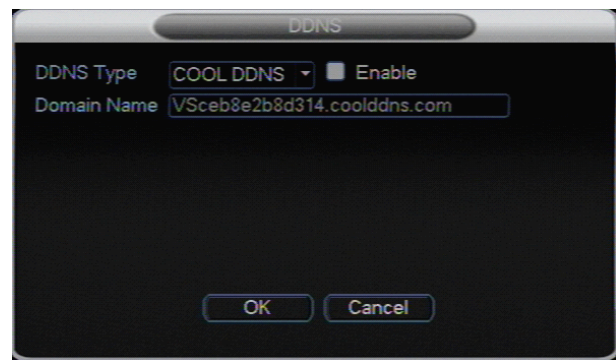
Each DVR with a DDNS, this DDNS created according the MAC address.

Checking way: Menu > network setting > DDNS setting.

1.Choose COOL DDNS in DDNS type.

2.Save DDNS

3.Select Enable



Click OK to exit after save DDNS.

8.3 Software

Copy mobile phone software to mobile phone and install it. Open network connection and software.

1.Input the IP address, port in the device IP as the TCP port. User name and password is same with the device user name and password.

2.If the mobile is in WAN, different network with device, please input COOL DDNS in “Device IP”, other steps same as above.

3.When access to the device in WAN via second-level domain name, only input the DDNS which already set in “Device IP”.

Choose channel to monitor each camera after log in.

