**This product is a designed for video surveillance video encode and record, it include H.264 video Compression, large HDD storage , network , embedded Linux operate system and other advanced electronic technology** ,realized a high - quality , low bit rate video features and good stability of the system .

## Part 1    Basic Operation

1    Basic Installation

**1.1 Hard disk installation**

New machine need a hard disk when first use it.

Note: The DVR still can see the video when no hard disk bu t can't record the video.

**1.2 Mouse Connect**

Back board have 2 USB interface, both can use for mouse, USB flash drives, and WIFI modules. If there have 1 USB interface in the front board, that was the same with the back board on the top. You can use one of them at the same time.

2    Machine Boot

Connect the power supply and open the switch, the power led light. When the machine booted finish, you will hear a "beep" voice, the DVR boot complete.

3    Shutdown

Going to [Manu] > [Shutdown system], choice shutdown, system will stop record and monitor will become black, and then, close down the power switch.

Note: Do not disconnect the power switch before soft shutdown, it will loss the disk's data.

4    Login

When DVR boot complete, you need to login the system, and get the right to operate the DVR function. There have 3 account , admin、user and default. There are all have none password.



Picture 1

Password Protection: When you input the error password 3 times in the short time, bell will be Warning. When you input 5 times error in the short time, this account will be locked. If reboot DVR or 30 minutes later, account will be unlocked. For safety, you need to change the password after you finish other all settings.

5 Live View

Enter the real-time monitoring screen after the device starts. There are some

icons on each channel (table 1). Switch live view channel through the front panel, remote control or the mouse.

| | Channel Record | | Channel Video loss |
|---|---|---|---|
| | Motion Detection | | Monitor be lock |
| | Monitor live view Tour | | Sound switch |

Table 1

6 Record Mode



Picture 2

There are 3 record mode: Schedule, Manual and Stop.

Schedule:   Record the video according to the video recording type and the setting time.

Manual: Record the video all the time.

Stop: Stop record the video all the time.

## 7 System Setting



**MAIN MENU->SYSTEM->GENERAL**

| | |
|---|---|
| System Time | 2014 - 09 - 12  21 : 10 : 52    Save |
| Date Format | YYYY MM DD ▼   ☐ DST   Set |
| Date Separator | - ▼ |
| Time Format | 24-HOUR ▼ |
| Language | ENGLISH ▼ |
| HDD Full | Overwrite ▼ |
| Pack Duration | 60        min. |
| DVR No. | 0 |
| Video Standard | PAL ▼ |
| Auto Logout | 10        min. |

Default    OK    Cancel    App.

Picture 3

【System Time】Changed the DVR system time.

Note: When you change the time, you need to click [save] to save the time.

【DST】Daylight Saving Time. Setting the DST begin and end time.

【Language】Switch system language.

【HDD Full】Choose stop or cover. Stop record conditions: when current disk is overwritten or current disk just filled and the next disk is not empty, it will stop. The condition of coverage is current disk just filled and the next disk is not empty, it will overwrite the oldest video files circulating.

【Pack Duration】You can set the length of time for each video file, the default is 60 minutes, the longest 120 minutes.

【DVR No. 】For a remote control or control panel remote DVR multiple occasions, only address key is pressed on the remote control and enter the remote locations and the local number corresponding DVR can be controlled remotely operate the same address.

【Video standard 】Choose video standard · PAL/NTSC (Must match the camera standard).

【Auto Lonout】You can set the menu standby time 0-60 min, 0 Standby time is not set, If you set the time, in the period after the idle, the system automatically logs the current logged-on user, the user menu if you want the operation to be re-login.

8 Record settings

The basic configuration settings and video Recording program that includes the recording. The basic configuration of which is mainly to channel video resolution, frame rate, stream and channel titles and other parameters set; Recording program is a channel for automatic recording mode at different time periods, recording different states (Normal, Motion detect and Alarm) video.

**8.1 Record setting**



Picture 4

【Channel】Select the channel to be set.

【Compression】H.264

【Smart video】Click setting ; Tick Enable limit frame rate, P system: 7 / sec -25 frames / sec; N system: 7 / sec -30 frames / sec.

【Resolution】 Set video encoding resolution. Different channels, different resolutions corresponding frame rate corresponding frame rate setting range is different. Resolution of some of the sub-stream is optional.

【Frame Rate】PAL standard: 1 ~ 25 fps; NTSC standard: 1 ~ 30 fps.

Note: Main stream resolution and frame rate are subject to different types of equipment and program version restrictions.

【Bit Rate Control】Include CBR & VBR. You can set the encoding rate on CBR; You can choose 6- level quality.

【Audio】Choose main stream / sub-stream audio encoding and closed accounts.

## 8.2 Display



Picture 5

【Image flip】Tick start；AHD／960H the image can be set upside and down

　　【Mirror image】Tick star；AHD／960H the image can be set left and right

【Channel Name】After clicking, you can change the name of the channel, currently supports English number sign.

【Time Display】The preview screen will display the current system time.

【Channel Display】 The preview screen will display the name and status of the current channel.

【Transparency】Set the GUI's transparency.

【Resolution】Set VGA and HDMI output resolution.

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【Cover-Area】 Tick Enable; click [set], Two rectangular blocks can be used obscured, Can be carried out separately for preview and monitor up to two locales privacy protection, shielding region size is adjustable.

【Channel Display】Tick Enable; click [set], Drag the position can be any immediate preservation; Right after the exit, then change the channel title will not change the position on the display or monitor, position the modified will be displayed on Recording and WEB interface.

【Time Display】Tick Enable; click [set], Drag the position can be any immediate preservation; Right after the exit, then time to change the title of the position will not change on the display or monitor, position the modified will be displayed on Recording and WEB interface.

【Channel】Choose channel you want to modify. Menu for each channel within a week of ordinary, motion detection, alarm Recording three states time to plan, There are six time periods per day to choose from.

【Redundancy】The channel while recording video to a redundant disk.

【Regular】In the time period set for normal video, video file type is "R";

【MD】Motion Detect. In the time period set trigger "motion detection", "video loss" alarm signal, and the corresponding alarm function is set to open the video function, start detection recording, video file type is "M";

【ALARM】In the time period set to trigger an external alarm signal, and "Alarm Input" function is set to open the video function, start alarm recording, video file type is "A".
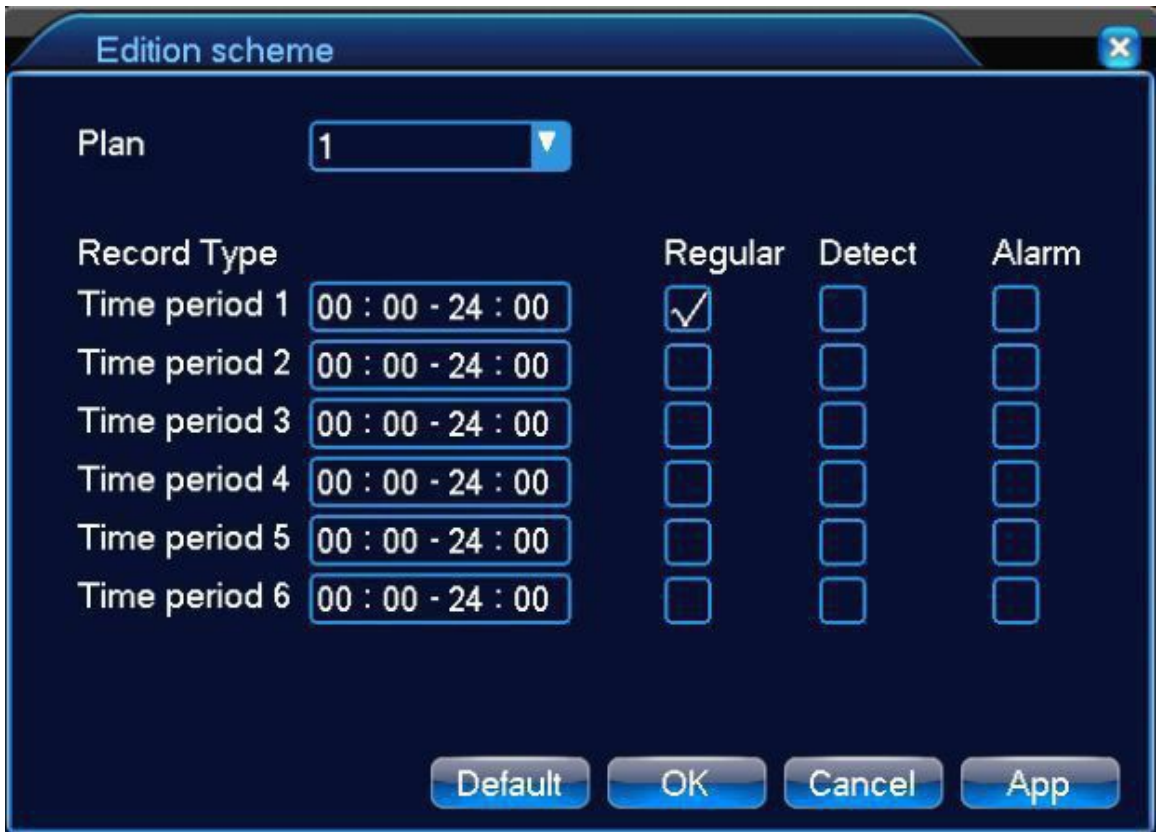
8.3  Holiday plan

1. Brief description

Holiday recording plan, also called a special date record schedule. In one major difference with the customer the usual recording. For example, customers want is usually video timing recording, motion detection or video based. The key to some holidays, such as May Day, National Day and other special occasions. Relative to the general plan of record is to follow week to divide, holiday recording schedule can be more flexible, more specific to one day come and set recording schedule.

2.Instructions for use

First, you need to develop an in days recording schedule, the schedule is not one day, one channel, but a way to plan for. Click [Edit] plan, the plan lists inside the program, in accordance with demand, can be edited to meet the demand. This side of the plan is to be applied to any channel and date.
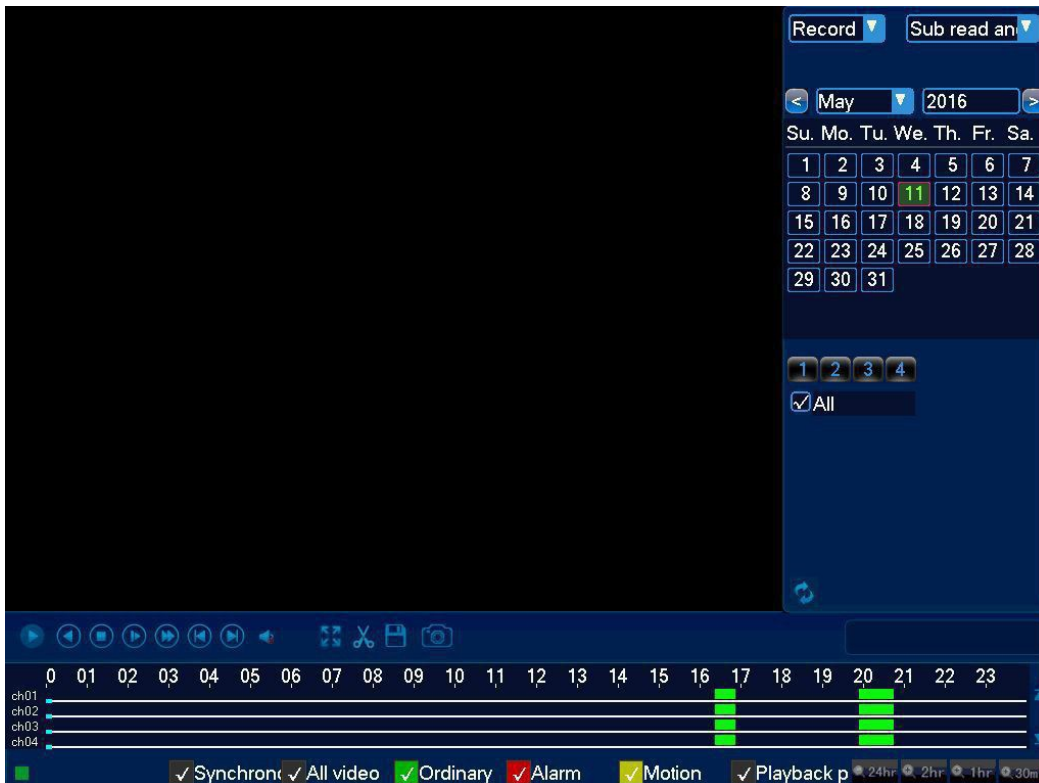
Picture 7



Picture 8

## 9 Play Back



Picture 9

Play video files on your hard disk. Through the desktop context menu, you can also [main menu]> [Record]> [Playback] inquiry into the video back to the interface, but also to achieve multi-channel playback.

Note: Device normal playback, video files stored in the hard drive must be set as read- write, read-only disk (please refer to the CD "Operating Manual" 4.5.1).

【disk capture catch】 click the icon during playback; images are automatically saved to disk

 "

【Play Back Control Button】

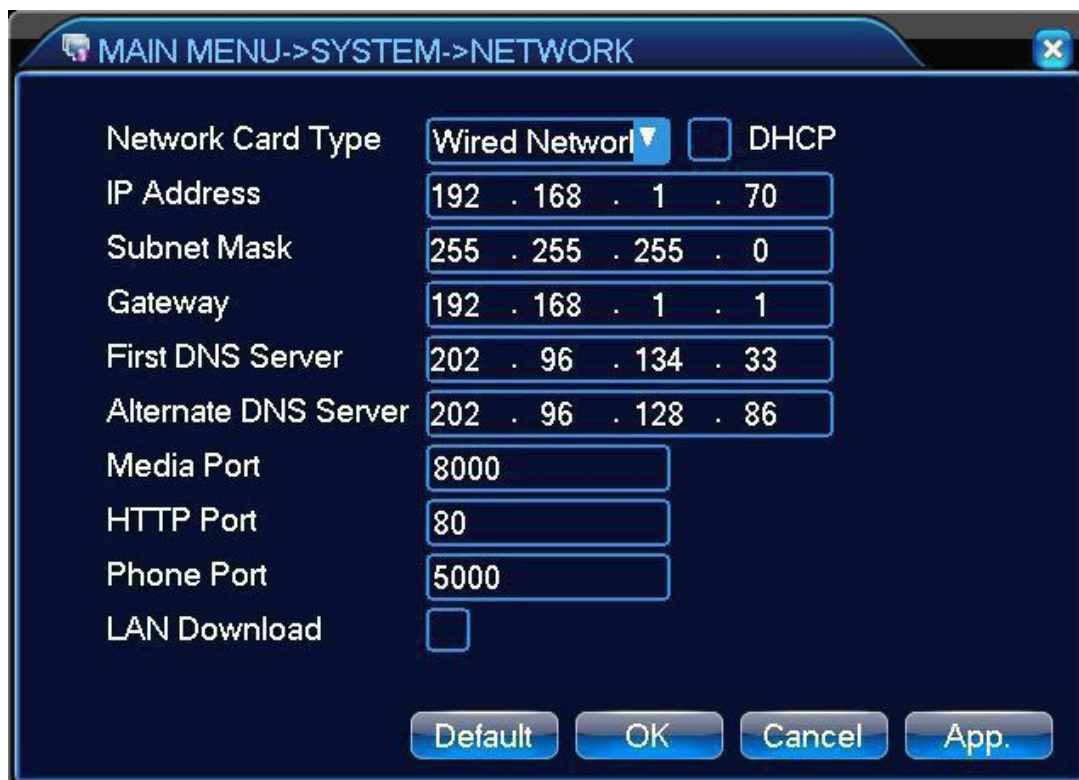| Butto | Instructions |
|---|---|
| | Play/pause key |
| | Every time you play this backwards, back 2 seconds |
| | Closed |
| | Quick keys, support four times as much as quick put |
| | Slo pla key, support four times slow play |
| | Pla next frame, to be suspended state |
| | Pla prior frame, to be suspended state |
| | Voice |
| | Page switching |
| | Full-screen |
| | Sho video type |

Table 2

Note: The functions to be performed by frame playback pause playback state.

10 Network Settings

[Main menu]> [System]> [Network], for local network settings



Picture 10

【IP Address】: The default value is 192.1681.1.10;

【Subnet Mask】: The default value is 255.255.255.0;

【Gate Way】: The default value is   192.168.1.1;

IP address of the device needs to be set to the router in the same network segment, such as the IP address of the router is 192.168.1.1, the subnet mask is 255.255.255.0, then press the default device, usually the default gateway is the router's IP address. In the IE address bar, enter the device IP address (192.168.1.88) can be realized within a local area network access devices, such as the need in the public network remote video monitoring equipment, specifically refer to the CD set "Operating Manual" six extensions.

11   Alarm Settings

Alarm configuration includes local alarm and video detection of two parts.

Picture 11

Before video detection alarms need to do the following steps:

Step one: [main menu]> [Alarm Configuration]> [Motion Detection] to enter the video detection interface, shown in Figure 10;

Step 2: Select channel 1, check the dynamic testing, adjust the sensitivity level; Step three: Set the monitored area, click on the "Regional Settings", enter the setup interface, press and hold the left mouse button and drag the mouse to regional delineation, delineation can be repeated after the delineation of the right mouse button to return to the floor, exit the setup screen;

Step Four: Click "approach" to enter the interface arming period, the time period set alarm monitoring;

Step Five: Set in the event of an alarm condition, the machine uses a linkage setup and handling. Its linkage settings are: video channel linkage, PTZ linkage, polling (selected pages single-screen carousel) and capture; approach: alarm output, screen prompts, send EMAIL (required in the [Advanced Network], set EMAIL parameters) and beep (local beep).

Step six, follow the steps two to step five, set alarm parameters other channels, in addition, the same parameters can be "Copy" button to set up;

Note: The video loss and alarm input setting method with video detection.

12 PTZ Control

Use the following steps may be simple PTZ control.

Step one: going to [main menu] [peripheral] [PTZ configuration management], set the channel, protocol and other basic parameters;

Step Two: In preview mode, enter PTZ control of a single window;

Step Three: Click the right mouse button, you can select PTZ control, enter PTZ

control routine functions. You can also select high-speed PTZ, hold down the right mouse button, you can directly manipulate the PTZ mouse control PTZ direction corresponding position can move, zoom factor can be manipulated using a pulley camera.

# Part 2   The remote control

Remote monitoring network, the network due to the impact, you need to find the CD-ROM> English> Software in "IE plugin.exe", manually installed, otherwise some models can't be accessed through IE.

1   Network connection

Before remote control, you need to connect the device to the network. Operation is as follows:

Step one: Connect the equipment properly access network;

Step two: LAN Settings. Please refer to the Manual Section 9 network settings; Step three: Set the router mapping;

Login router, enter the "forwarding rule"> "virtual server" will be set DVR IP and TCP port corresponding to the IP, HTTP port mapping

Step four: Apply dynamic domain name. Yuki common DDNS network (http://www.3322.org/), peanut shells (http://www.oray.com/), in the corresponding web site for free dynamic domain name;

Step five: DDNS settings. In DVR, going to[Main Manu]>[System]>[Net Service] DDNS, Fill in the application domain information.

Note: The device should be consistent with the IP segment of the PC. If you can not connect, check the device IP is connected properly.

2 Remote Monitoring

After the network connection is successful, can be used in two ways Remote Monitoring. Multi-Client and the general browser, multi-machine client software CMS for professional software Remote Monitoring of multiple devices, a safe, convenient, stable and unified management of multiple devices, etc., do not need to download and easy to install plug-ins, recommends that customers to use. Browser kernel that comes with the computer browser such as IE and so on.

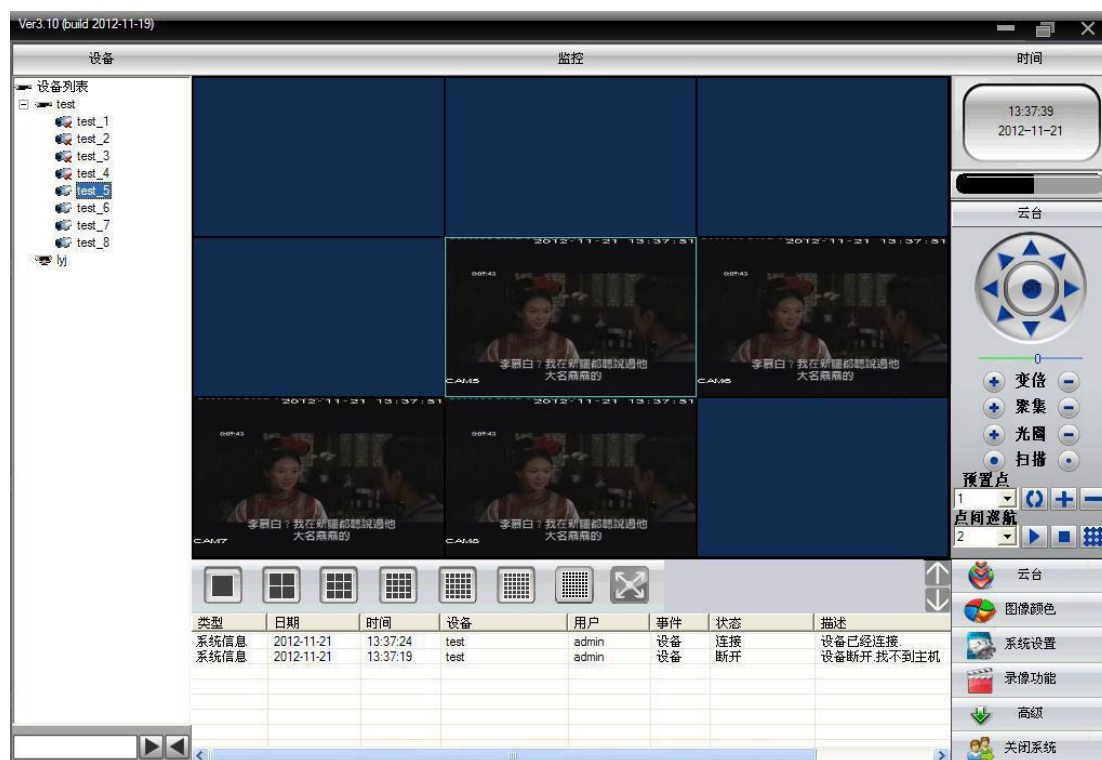**2.1 Multi-machine management platform CMS**

CMS management platform for multi-machine software can be a PC, while the DVR of different places for unified management.

Step one: From the accessory box, access CMS software to be installed according to the message;

Step Two: After successful installation, log, log system interface 12 as shown in Fig. By [System Settings]> [Monitor Point Management]> [add] to enter the Add Device screen, follow the prompts to enter add the DVR device information, save and exit;

Step three: monitoring point in [Management] dialog box, repeat the above

operation, you can add multiple devices, unified management.
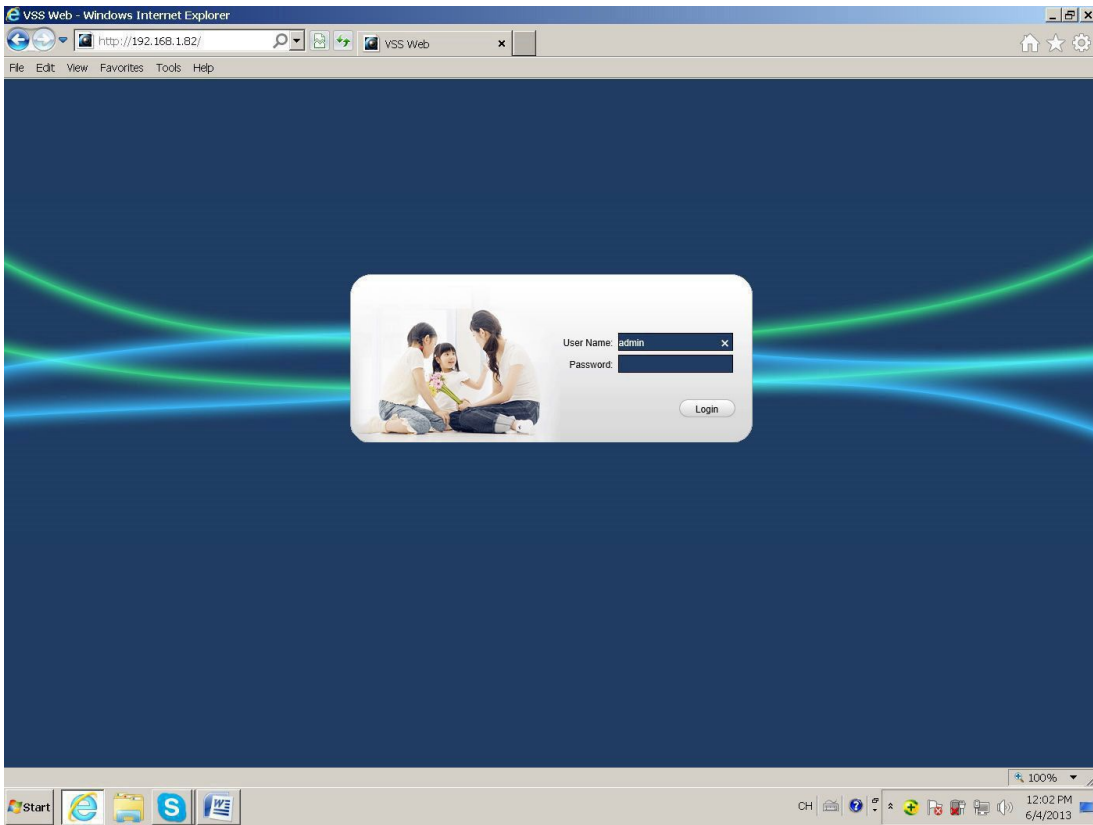


Picture 12

## 2.2 WEB

Network connectivity, the use of PC comes with a browser, log on DVR device for remote monitoring.

Step one: Install the plug-in, from the accessories box CD, get "IE plugin _V1.1.0.78.exe" information on installing the prompts;

Step two: Connect the device. Open a web browser, enter the device IP address in the address bar Austrian login. In the device IP address 192.168.1.79 for example, that enter in the address bar http:. //192.168.1 79, to connect.
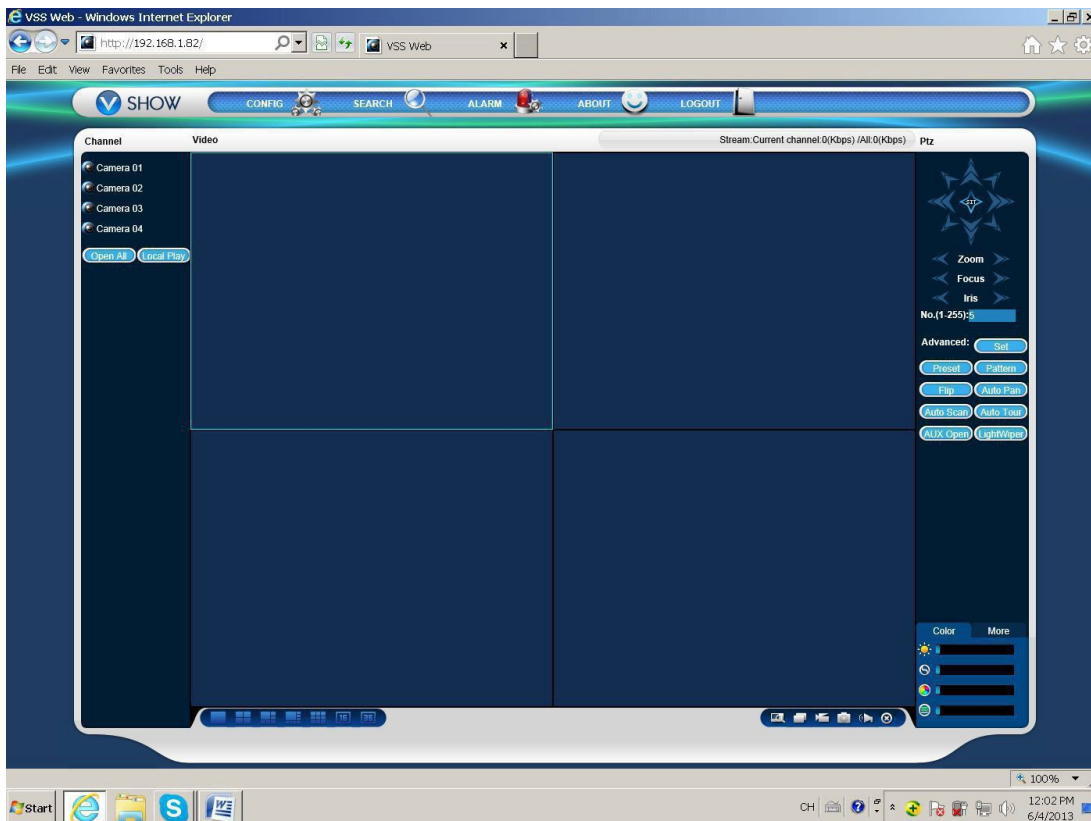
After a successful connection interface will pop up as shown below:

Picture 13

Step three: Login. Enter your user name and password, the company factory default administrator username is admin, no password. After logging in, please change the administrator password.

After a successful login, the interface shown in Figure 15 below:



Picture 14

## 3 Basic remote control
### 3.1 Channel manipulation

Open Video: open the first video, select a video window video area, select a video channel in the channel area, click the left mouse button to open the video; open a second channel video, select another window video area, select a video in the channel region channel, click the left mouse button to open the video. Other video empathy. If the video area selected window is not changed, but also open to other video channels, the system will shut down the original video channels and open new video channel. Also, if you click the channel region "fully open" button, then the window will appear in the order channel video zone video channel.

Note: When a user opens a remote video surveillance, you can choose the most suitable picture mode.

Close Video: You can click on the channel region of the "All Off" button (formerly the "fully open" button, the video fully open to "all off"), or, Click on the bottom right of the video area ⊗, Close-channel video.

### 3.2 Split screen manipulation: Bottom left corner of the video surveillance of the

window for window switch cloud, by clicking                    , Switchable single-screen video window screen, multi-screen mode.

### 3.3 Video function Button: Lower right corner of the video surveillance of the window for the function key area, and its role as detailed below

| | Zoom In | | Split video |
|---|---|---|---|
| | Local REC | | Capture |
| | Audio Control | | Close Video |

Table 3