NVSS6XXX system

USER’ S GUIDE

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Chapter 1 Guide

Setup 1:

By default, when you connect the device to the monitor, insert the mouse and connect the power cable, press the ON/OFF button, the Guide Interface will be showed automatically as pic1-1.

![Guide Interface](pic1-1)

The Guide setup can lead you to setup some important setting of the NVSS. You can setup the system language at this page.

If you don’t want to use the Guide setup at that moment, please click the **Cancel** button. You can also choose to use it next time by checking the **Start Up When Power On** checkout.

It is worth nothing that if it is your first time to open the NVSS system, you should not cancel the guide, because you can finish the network settings in the guide to help your register your system in the interface of register after the guide.

Setup 2:

Click **Next** button to continue the Guide setup, you will enter the Login window as pic1-2.
The default username and password is **admin**, you have to input the username and password to login in the system. You can also change the password by checking the “Modify Password” checkbox.

**Note:**
1. For security reason, please modify password after your first login.
2. You have to input the new password for twice correctly, then the new password will be valid.

**Setup3:**

Click **Next** button to continue. You can modify the system Timezone, system Date and Time in this Interface, showed as pic1-3.
Setup4:

Click **Next** to continue, you will enter the network setup as pic 1-4. Please input the correct IP Address, Mask Address, Gateway Address, and DNS Server.

Click **OK** to complete the startup Setup Wizard.
Chapter 2 Main Interface


2.1 Device Management

pic2-1
The main function of the NVSS is to connect the network cameras and record the video. So, before you can get a live view or record of the video, you should add the network cameras to the connection list of the device first, showed as pic2-1.

There are three ways to go into the device management to add IPC: select the Add Device of context menu; select the Device of the Main menu; click the button in toolbar panel.

The Device Management include add IP devices to NVSS system, modify or delete IP devices from NVSS system and IPC search. For resource limitation, you can add max 64 channel 1080P(1920*1080) IP cameras, including DVS / DVR and NVR.

Now our NVSS supports the following types of IP products: DG Series IPC, DH Series IPC, DK Series IPC, DT Series IPC, DX Series IPC, NV Series IPC, DZ Series IPC, ONVIF Protocol IPC.

2.1.1 Add IP Device

1. Add IP Device manually

Press Add Camera button, it will pop up a sub window, showed as pic2-1-1(a), you can add an IP Camera manually:

![Add Device](image)

**Server Name** Set a name for the new IP camera, the server name you set will be showed as camera name at the preview channel.

**IP Address** Input the IP address of the camera, it is an IP address or IP alias of an IP camera which is connected through DNS Server.

**Connect Port** Set the port through which connects to IP Camera.

**Login User’s ID/Login Password** When the user want to visit IP Camera and the server has used the function of rights management, login user ID and password will be checked. If the user has no right to visit that camera, the connection will be cut down automatically.
【Device's Type】Select the corresponding type for the IP camera. Now our NVSS system supports the following types of IP products: NV Series IPC, DH Series IPC, DT Series IPC, DG Series IPC, DK Series IPC, DX Series IPC, DZ Series IPC, ONVIF IPC.

【Stream Type】Select Main-stream, sub-stream or double stream for the device. If you want to use the record sub stream function in the IP device, you should select the data stream type as Double Stream.

【Max. Cameras】Select the number of channels you want to get from the IP device (1 by default, and it is used when add standalone DVR / NVR). The max is 32 channels.

2. Auto Search and Add Device

Press button, you will see the following interface.

![](pic2-1-1(b))

【Adapter IP Address】Our NVSS system has two network adapters, please select one which you want to search firstly. The adapter’s IP address has been set in the guide.

【Device Type】Select the corresponding type for the IP camera. Now our NVSS system supports the following types of IP products: NV Series IPC, DH Series IPC, DT Series IPC, DG Series IPC, DK Series IPC, DX Series IPC, DZ Series IPC, ONVIF_V2.3 IPC.

【Device Named Type】It has two kinds of naming: Name as IP address and Name Device Customizable.

1) Name as IP address: Software will take the IP address of the camera as its
device name;

2) **Name Device Customizable:** In this mode, please input the name which you want to set for the cameras into Customize Name blank.

【Customize Name】 In *Name Device Customizable* mode, input the customize name for the series of IP cameras. Then the system will assign this name as a prefix for each IP camera of this series. E.g. input DT Series IPC, then the cameras will be named as:

- DT Series IPC_1
- DT Series IPC_2
- DT Series IPC_3 etc..

【Generated IP Start Address】【Generated IP End Address】 Before you start searching, please set a range of IP address for the IP cameras to be generated, the starting IP address and the end IP address should be filled into these two bars.

【Stream Type】 There are three types to select : main-stream, sub-stream and double stream for the devices.

【Connect Port】 Set the port through which connects to IP Camera.

【Login User/Login Password】 Please input the ID and password for the series of IP cameras, they will be checked by the IP cameras when the system is modifying their IP address and accessing them.

After the configuration are finished, press **Start Auto Search&Add** button to start auto search & add the devices, and press this button **Stop Auto Search&Add** to stop. Showed as pic2-1-1(c).
Note:
It will keep searching till the given range of IP address is finished.

3. Manual Search and Add Device

Press **IPC Search** button to add IP device. Then you can see this interface, showed as pic2-1-1(d).

Our NVSS system has two network adapters, please select the "**Adapter IP Address**" which you want to search firstly. The adapter’s IP address has been set in the guide.

Then the system will display all the IP devices can be searched and connected. When there is a new IP device connected but you can’t find its IP address in the list, please press Update IP List button. Also, you can press Clear IP List to clear the IP devices from the list. You also can click ■ to change the device's type to search different kinds of cameras.

You can set the server name, stream type, login user's ID, password, IP address, mask address, gateway address and connect port according to your own needs, click **Add to NVSS** button to add the device into NVSS system. If IP address repeated, add the first to system only.

You can also sequence the searched IPC by clicking the head of any column.

**Note:**
1. For searching DH Series IP cameras, users have to connect them to switches under a router, and connect the router to one network port of the NVSS. you can only
search the IPC which connected to the one as **Network listen adapter**, you can't search the ones which have the same network segment of the unchecked router.

2. Please select different **Adapter IP Address** to search cameras under different routers connected in different network port of NVSS.

3. The whole NV Series IPC can be searched whichever **Adapter IP Address** you selected, no matter the cameras are connected under which network port of NVSS.

### 2.1.2 Modify IP camera

Press **Modify Camera** button to modify IP camera information, the interface is the same as **Add IP Camera**, showed as pic2-1-1.

### 2.1.3 Delete IP camera device

Press **Delete Camera** button to delete a connected server.

### 2.2 Live View and Screen Menu

#### 2.2.1 Live View

Live view shows the real-time video getting from the cameras. Users can setup the display split mode & camera in each window in the **Preview Group Setting** which will be introduced in the **Screen Menu**.

You can drag the camera in server list to any live view window in monitor 1 to preview its video. You also can scroll the mouse to magnify the selected image, eight times largest, in the magnified screen, you can long press the left mouse button and move to convert the perspective, if you want to restore the enlarged image, you should click the right mouse button.

The NVSS also support multiple display, it can support 3 monitors if your motherboard is SV6-B75A6 as pic2-1-1 shown, it can only support 2 monitors when your motherboard is GA-B75-D3V as pic2-1-2 shown.

The motherboard is SV6-B75A6:
The motherboard is GA-B75-D3V:

### 2.2.2 Screen Menu

User can Single-Right-Click image area to pop up the screen menu, showed as pic2-2:

![Screen Menu](pic2-2)

1. **Main Menu**
Single right click Main Menu, the system will pop up the sub window, showed as pic2-2-1. There are 8 icons: System Setting, Channel Setting, Device Management, Playback, Backup, HDD Management, Lock Screen (ON/OFF) and Power Management. You can move the mouse to highlight the icon, then click mouse to enter the sub-menu.

**Note:**

If you disabled the "Local Password" in "System Setting--->User Management", the icon would be hidden.

### 2. Split View

Move your mouse to highlight Split View, it will pop up the sub menu, showed as pic2-2-2, you can select the window split mode in the pop-up menu.

### 3. Group view & Setting
a. Group view

You can single click **Group View & Setting**, it will pop up the sub menu, showed as pic2-2-3(a), you can step into the Preview Group Setting to set and save the preview group, and you can also save the current preview group of monitor 1 to any group by clicking **Save the Current View as** like pic2-2-3(b) shown.

After you set and saved the preview group, you can call any preview group by single clicking the group name as pic2-2-3(a) shown.

pic2-2-3(a)

b. Preview Group Setting

You can step in the **Preview Group Setting** sub window, showed as pic2-2-3(c).

pic2-2-3(b)
**Device List**—It will list all the servers & cameras connected to the system, and when your mouse stop above the camera name, you will see the detail information of the camera. You can drag any cameras in device list to any display window. If you want to cancel the display of one camera in one window, you can double click it to remove.

The default stream type can be selected between “Main Stream” and “Sub Stream”. If you select a default stream type in the drop-down list, each camera you dragged to the window will be displayed as the selected stream.

**Note:** You can also change the stream type of each camera manually by modifying the stream type in each window.

The system can connect 3 monitors in the meantime, you can select any one to setup its preview group. If there is only one monitor, this option would be not selectable.

You can select a group from the drop-down list to setup, support maximum 16 groups.

You can also define the group’s name and partitions.

Check the box of any preview group, then the
system will display this group automatically when the NVSS startup next time.

**Interval [Disable]** -- Users can drag several cameras into the same window to do sequence, and you can set the display interval as 5, 10, 15 and 20 seconds etc. from the drop-down list.

**enable expand mode** -- When the NVSS system start without recognizing other monitors, you can press this button to enable expand mode, it may be possible to fix the problem, after enable this function, restart the system to take effect.

4. Preview Channel Management

Select a video window and single right click on main interface and choose the **Preview Channel Management**, it will pop up the sub menu, showed as pic2-2-4.

![pic2-2-4](image)

**Full Screen**: make the live view area full screen;
**Capture image**: capture image of the selected window;
**Hide Video Title**: hide the selected window’s video title;
**Close video window**: close display of the selected window’s video;
**Hide All Video Title**: hide the all video’s title;
**Show All Video Title**: display the all video’s title;
**Close All Preview Widow**: close all video preview.

5. Layout Management
You can manage the layout in **Layout Management** setting.

**Load the Default Interface:** Default interface is showed as pic2;

**Load the Classical Interface:** Classical interface only shows video in full screen mode;

**Show Control Panel:** You can check (uncheck) to display (hide) the control panel;

**Show ToolBar Panel:** You can check (uncheck) to display (hide) the toolbar panel;

**Show Log Panel:** You can check (uncheck) to display (hide) the log panel.

6. **Others**

![Menu](http://www.smartvisiondirect.com/)

**Camera Data Stream Statistics:** It will pop up sub window, showed as pic2-2-6(b), there are 4 columns Server Name, Instant Value, Record Average Value and Record Loss. They show the instant data value / Average data value / accounts of the lost data package for corresponding cameras. Record loss will cause the video to jump when playback.
Log Search: It will pop up the Log Search sub menu, showed as pic2-2-6(c). There are three log contents: IPC Alarm, Local Operation and Exception. You can filter the log by the three contents and its filter parameter.

Export system parameters: It will pop up the Export System Parameters shown as the following picture. Just please input the file name and click the button Export, the parameters of the system has been exported to the selected USB flash disk.
Import system parameters: It will pop up the Import System Parameters interface as shown below. Just select the file you want to import and click the button Import, you can import the parameters what you want.

Synergy configuration: It will pop up the synergy configuration interface. You can share your multiple NVSS on your server's desktop just move your mouse off the edge of one NVSS screen on to another.

1. Configure a server

The server will share its keyboard and mouse with clients. It need to know about all clients that will connect to it. To tell server about these clients, click "Configure Server".
To add a new client, drag a screen (top right) on the grid; to remove a client, drag the screen to the trash can (top left); to move a client, drag the existing screen to another cell. Once you have added a client to your grid, it will have the name "Unnamed". Double click the icon to change its name to the name of your client; you can find or modify the client name by clicking its "Setting". You can add every client which you want to add by repeating the process.

b. Configure a client

After you've configured your server, you need to connect each client to the server. In the "Server IP" text box, enter the IP address of the server.

Restart the Synergy: you can restart the synergy by click this item. About Register: you can get the device’s S/N and IPC License Number, showed
as pic2-2-6(e). You can also upgrade by pressing “Upgrade” button to upgrade the license number of the system.

![Registration Information](image)

**pic2-2-6(e)**

7. **Add Device**

When you single click the Add Device, it will pop up the **Device Management**, showed as pic2-1. You can add, modify, delete and search IPC in the sub window.

8. **Fast Playback**

After you click **Fast Playback** in the context menu, it will pop up the Fast Playback shown as pic2-2-8(a).

![Fast Playback](image)

**pic 2-2-8(a)**
--Press this button to open all playback windows in sequence according to the order of the cameras. When you start playing the records, the upper right of the interface will change to the interface like pic2-2-8(b) showed. You can also click the button for each window to select camera to play.

pic2-2-8(b)

-- Adjust the audio. The volume has been closed in default, you can click the button to open the audio.

-- press this button to close all cameras;

-- press this button to pause;

-- press this button to play;

-- press this button to play next frame;

--you can press these buttons to jump to the previous 1min/10min/60min video to continue to playback.

--you can press these buttons to jump to the next 1min/10min/60min video to continue to playback.

-- -- Press this button to grab a picture, when a picture is grabbed, there will be a dialog pop up to ask for a file name.

-- Adjust playing speed. Click the button to resume normal play speed.

9. Manual Record

Users can start or stop the manual record function by selecting Manual Record.

10. Lock Screen
Users can lock the Screen by selecting **Lock Screen**. Then you have to input the ID and password to unlock the screen.

### 2.3 Information Panel

![Info Panel](image.png)

This panel shows product's logo, current date, current system time, CPU occupancy rate, the information about HDD as pic2-3 shown.

The color of CPU percentage would be changed according to its value. 0-70% the text's color would be 123; 70-80% the text's color would be 123; 80-90% the text's color would be 123; 90-100% the text's color would be 123.

You will get the SN, the used percentage and its record begin,end time of each HDD, when the mouse move closely or stop above the flag. It would be added one more flag when the added HDD has been formatted and mounted, you can also get the HDD status from the flag.

**HDD status:**

- --The HDD is waiting for formatting;
- -- The HDD is formatting;
- --The HDD is empty;
- --The HDD is writing;
- --The HDD is full;
- --The HDD is used, but it is not full;
- --The HDD is error.

**Note:**

1. A 1TB HDD would cost about 2 minutes to format and mount to the system.
2. Don't unmount the HDD which is writing or formatting, it would cause bad track and damage its file system.
3. You need wait for about 20 seconds before see the HDD icon when you inset one new HDD.
2.4 Control Panel

2.4.1 Sever List

All the connected IP devices will be showed in the Sever List, showed as pic2-4-1. Users can get the detailed connection information when the mouse stops above the device flag.

![Server List](image)

pic2-4-1

You can also know the connection and recording status about the server from its server and recording flag.

**Server status:**

- The IPC connected successfully;
- The IPC connected failed;
- The NVR/DVR connected successfully;
- The NVR/DVR connected failed.

**Recording status:**

- The camera is recording continuously;
- The camera is recording manually;
- The camera is recording in motion detection alarm;
- The camera is recording in event alarm.
Users can preview any video of the server list by dragging the camera to any live view window. The drop-down box gives the choice of main stream or sub stream for the preview of the camera.

- you can open the all connected cameras' sub stream or 8 channels main stream by clicking this button.
- you can close the all preview camera by clicking this button.

2.4.2 Color/Audio Adjust

The detailed function of each button:

- Drag the white and small button to adjust the brightness of the image which you selected, click this button will resume its default value;
- Drag the white and small button to adjust the contrast of the image which you selected, click this button will resume its default value;
- Drag the white and small button to adjust the hue of the image which you selected, click this button will resume its default value;
- Drag the white and small button to adjust the saturation of the image which you selected, click this button will resume its default value;
-- Drag the white and small button to adjust the volume, click this button will turn off the audio.

-- Click this button and select cameras to copy the color and audio adjustment to them.

2.4.3 PTZ Control

![Image of PTZ Control interface](pic2-4-3)

The detailed function of each button:

-- Please set the presets for the cameras in **Channel Setting**, then you can select the camera and press this button, it will pop up this menu for you to call a preset or tour group of the selected camera.

**Note:**

Only when you selected the video is dragged to the live view directly from the **Server List**, you can control the PTZ in the main interface; video set in preview group can’t be controlled.

-- Users can drag the slider bar to adjust the speed of PTZ. Its range is from 1 to 255, the bigger number the faster speed.

-- Zoom function of the PTZ camera control.

-- Overrides the PTZ cameras auto-iris and brighten or darken the image.
-- Auto-focus setup of the PTZ camera overrides, adjusted to focus the image.

-- you can move up, down, left, right as well as other directions by pressing and holding these buttons.

-- Users can press this button to start the selected PTZ camera to do an automatic tour of 360, but for speed dome, many PTZ factorizes forbid this command.

2.4.4 DI/DO Control

Users can get the name of DI/DO when the mouse stops above the number button, showed as pic2-4-4.

Users can set the DO status in Channel Setting. When there is no alarm triggered out, users can press the number button to output alarm forcibly and the button will turn to blue. Press it again, the output will be closed and the button will turn back.

**The status of DI:**

1 -- Input channel 1 has no alarm input.

2 -- Input channel 1 has an alarm input.

**The status of DO:**

1 -- Input channel 1 has no alarm output.

2 -- Input channel 1 has an alarm output.
2.5 Toolbar Panel

1. Split view

Press \( \text{button} \) to set the window’s partition mode of the main screen. There are many types of partitions, showed as pic2-5-1:

![Partition Options](pic2-5-1)

2. System Setting

Press \( \text{button} \) to enter the **System Setting** window, please refer to Chapter3 for details.

3. Playback

Press \( \text{button} \) to enter **Playback** submenu to search local video/audio data. You can get the detailed information from Chapter4.
4. **Group view&Setting**

Press button to enter **Preview Group setting** to set preview group; choose the group which you want to view; and save the current view in monitor 1 to any preview group. When you press this button, it will pop up a submenu, showed as pic2-5-2.

![pic2-5-2](image)

5. **Manual Record**

Press button to record manually and press it again to stop manual recording for all cameras. The record status will change to 📀 when you start manual record.

6. **Capture**

Press button to grab a picture of a selected camera to local hard disk. You can view and download the capture picture in the capture picture and view of playback.

**Note:**

If the size of all the captured pictures beyond 2G, it would delete about half of them to save new one.

7. **Channel Setting**

Press button to enter **Channel Setting** window.

8. **Device management**
Press button to enter Device Management sub window.

9. Lock NVSS (ON/OFF)

Firstly, make “Local Password” enable in System Setting.

Press button to prevent unauthorized user to operate system. Press this button again, the unlock dialog box will be displayed. Input your User ID and password then press OK to unlock it.

Default User ID is “admin”, password is “admin”.

Note:

If you disabled the local password, the button would be hidden.

![Login]

10. Power

Press button to enter the power management submenu, when you press this button, it will pop up this window, showed as pic 2-5-4.

![Power Off]

You can logout, restart or shutdown this system in the sub window.
**Note:**
If the buffer of data is writing to the HDD, it will spend a little more time to shut-down the system.

### 2.6 Log Panel

<table>
<thead>
<tr>
<th>Time</th>
<th>Log Content</th>
<th>Filter Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014/02/19 10:25:04</td>
<td>Local Operation</td>
<td>Login</td>
</tr>
<tr>
<td>2014/02/19 10:24:58</td>
<td>IPC Alarm</td>
<td>Sensor Alarm</td>
</tr>
<tr>
<td>2014/02/19 10:24:56</td>
<td>Exception</td>
<td>Restart</td>
</tr>
</tbody>
</table>

**pic2-6**

All the real-time log information will be displayed in the log panel. showed as pic2-6.

Users can search all logs in **Log search**. Users can also set different color for different log information in the **Log Color setting**.
Chapter 3 System Setting

The NVSS System Setting includes 5 partitions: General Setting, Network Setting, Record Schedule Setting, Log Color Setting, Exception Setting, and User Management.

3.1 General Setting

3.1.1 General Setting

- **Language**
  - Display the current system language, users can also choose the other language in the drop-down box.
- **Timezone**
  - Display the current system timezone, users can also modify it according to your requirement.
- **Display Resolution**
  - Display the current system display resolution, the software will adjust its display resolution according to the monitor’s resolution. You can also choose other resolution which the monitor supports in the drop-down box.
- **Date Format**
  - Display the current date format. You can also change it, there
are three modes YYYY-MM-DD, MM-DD-YYYY, DD-MM-YYYY. It decides the date display mode of system, including the information panel on the main interface.

【System Date】 Display the current system date. You can also change the date here.

【System Time】 Display the current system time, you can also change the time here.

【Enable the Wizard】 Enable or disable the wizard when the system starts up.

【Device Name】 Display the name of NVSS.

【Device ID】 Display the ID of NVSS.

【System Version】 Display the system version.

【Software Version】 Display the software version.

3.1.2 Reboot Setting

【Reboot】 You can enable the reboot function by checking the Reboot checkbox, or unchecking to disable it.

【Reboot At】 Set auto-reboot date here.

【Reboot Time】 Set auto-reboot time here.

3.2 Network Setting

3.2.1 Network Setting
【Netcard】There are two network adapters on the motherboard, you can choose one network adapter and configure it. You can set one for IP video input and the other for transferring video to clients, you can get the detailed setup from Dual Network Adapters IP Surveillance Solution.

【DHCP】Enable this function by checking the box, and the NVSS will then get an IP address automatically.

【IP Address】If you don’t use the function of DHCP, please setup the IP address here.

【Mask Address】Please input the mask address, actually it can get the correctly mask address automatically.

【Gateway Address】Please input the correctly gateway address here.

【MAC Address】Display the mac address of the configuring network adapter.

【Preferred DNS Server】You need input the Preferred DNS Server here when the NVSS is connected under a router.

【Alternate DNS Server】You can input the address of alternate DNS server here.

【Network Listening Adapter】Please choose the network adapter which can be connected by clients.

【Server Port】Display the data port of the server, you can modify it here.

【HTTP Port】Display the HTTP port of the server, you can modify it here.

3.2.2 Email Setting
【SMPT Server】 SMTP server address, e.g.: mail.jstHybridNDVR.com.

【SMPT Port】 SMTP listening port for connect request.

【Login User ID】 The ID of mailbox.

【Login Password】 The password of Mailbox.

【Auth. Type】 Login mailbox, operator should select SMTP authentic type. Or select “simple login”.

【SSL Security】 Security protocol for Mailbox.

【Email Title】 Enter title of the E-Mail to be sent.

【Sender Address】 Enter email address of sender. It should be the same with Login User ID.

【Send To】 Set the address of receiver.

【Copy To】 Set another address of receiver.

【Send Attachment】 You can select whether send an attachment of the E-mail or not.

When the setup is finished, user can press to test the function.
3.3 Record Schedule Setting

【Camera Name】 Select the cameras that you want to set.

【Pre-Event Record】 Select the pre-event record time for alarm record, when there is an alarm, the NVSS will record video seconds earlier than the alarm is trigged.

【Post Record Time】 Select the post record time for alarm record, when there is an alarm, the NVSS will record video seconds later after the alarm ended.

【Record Sub Stream】 Select to enable / disable record sub stream, if you select enable, you can view the sub stream in clients.

【Copy to】 Select the cameras you want to copy to, and press the button to paste the same record schedule to the selected camera.

【Recording Schedule Setup】
Note:

One block of pane means half an hour. Firstly, click record mode icon, then click schedule diagram, hold down the mouse and move it to select large area (Drag & Drop).

The record mode:

- Normal record, system will always record video;
- Sensor record, system will begin to record only when there is sensor alarm or POS data;
- Motion record, system will begin to record video only when it receives motion alarm from cameras;
- Motion or Alarm record, Combine with above 2 and 3 function;
- Normal&mation record, system records in motion when it receives motion alarm and in normal record when there is no motion;
- Not record, system records no video.

3.4 Log Color Setting
pic3-4

【Log Type】There are three types which you can set the text’s color. Including Alarm Information, Local Operation, Exception Information.

【Text Color】Users can set different color for different log type, when you press the button \textbf{Select Color}, a sub window will pop up, showed as pic3-4-1. You can select any color you like in the window.

Pic3-4-1

【Select Channel】You can select the all channel which connect to the system, or press the button \textbf{Select Channel} to choose the channels you want to set their log color in the pop-up window, showed as pic3-4-2.
3.5 Exception Setting
【Exception Type】There are four types of exception types, it includes HDD Full, Reboot Exception, Record Exception, Device Disconnected.

【Audio Warning】Users can click the checkbox to enable audio warning, it will indicate the alarm with voice. Only you move the mouse in main interface, the buzzer sound will stop.

【Send Email】Users can click the checkbox to enable it, when exception happened, it will send email automatically.

*Note:* In order to send email successfully here, please keep the network normally and users must have configured the email settings. For more detail information of the email setting, please query 3.3.2 Email Setting.

【Trigger Alarm Output】Users can click the checkbox to select to trigger all alarm outputs, you also can select output you want by pressing the button, showed as pic3-5-1.

![pic3-5-1](image)

The Device Disconnected exception can Select Cameras, showed as pic3-5-2.

![pic3-5-2](image)

you can select the channel you want to set by pressing the button, showed as pic3-5-3.
3.6 User Management

【ID】It displays the number of users.
【User Name】It displays the name of all users.
【Auth. Level】Display the level type of users.
【Local Password】Select “Enable” to enable User Manage mode for local NVSS, and activate the lock button in main window. Only authorized user can log into NVSS at User Manage Mode.

【Lock Screen Delay Time】Select “Disable” to disable the automatically lock screen function, or you can select 3,6,9,12,15 minutes interval to lock the NVSS
automatically.

【Network Password】Select “Enable” to enable User Manage mode for Client. When you enable this function, client must pass the authentication in order to connect the NVSS.

【Add New User】Click icon to add new user you edited to user list. It will pop up the sub window User Information, showed as pic3-6-1.

```
User Information

User Name: [input field]
Password: [input field]
User Level: [Manager]
Password Confirm: [input field]

- System Setting
- Device Management
- Check the HDD information
- Local DO Control
- Check the Camera Data Stream Statistics
- Import/Export System Configuration
- Upgrade Register Information
- Chat

- Group View&Setting
- Power Management
- Backup
- Layout Management
- Log Search
- Synergy
- Manual Record
- Display/Hide Video Title

Channel Setting: [Playback]
Select Cameras

OK
Cancel
```

pic3-6-1

In the User Information window, you can input the new ID, select its user level type, set its password. The user rights include system setting, group view and setting, device management, power management, check the HDD information, backup, local DO control, layout management, check the camera data stream statistics, log search, import/export system configuration, synergy, upgrade register information, manual record, chat, display/hide video title.

You can also set permission for each channel in the Channel Setting option, you can select the camera you want to set by pressing the Select Cameras button. The channel setting includes playback, capture picture, channel setting, preview video, PTZ control.

【Modify】Select a user from user list, then click button to modify it.

【Delete】Select a user from user list, then click button to
delete it.

Note:

1. Only the admin has the right to add or delete a user, the admin also has the right to manage the password for each user.

2. The admin’s default password is admin, only the admin ID can modify it. The other users except admin can only modify their own password.
Chapter 4 Playback

There are two ways to go into the Playback to search record data: select the Playback from Main menu; or press the icon in the toolbar panel.

When you click the playback button, it will pop up the playback interface, showed as pic4. The default split view is four window views.

4.1 Select Date

Before you open the videos, the upper right of the playback interface is the date panel, it includes year, month, and the current date, showed as pic4-1-1. Users can select the date which they want to do playback.
Click the ▼▼ to change month and year to search the data which you want.

In the process of playback, the first step is to select the date you want to playback, when they are selected, it will pop up the dialog box to select playback time, shown as pic4-1-2. You can just select any period to playback by dragging the mouse; double click to select the whole day; right-click to cancel the selected period.

The advantage of this feature displays in three aspects:
- It can reduce the search time
- It can be more accurate positioning
- When there are large amounts of the video data, it can reduce the possibility of packer loss caused by the search.

Note:
It would spent about 300s to search the whole day’s video data when the total recording video data stream is about 300M/s.

4.2 Select Record Type
Press the icon [ ], you can check all records, press the [ ] icon when you only want to playback motion recording, other record will be filtered. Sensor, Manual buttons are the same.

If there is no record data of the selected record type, it will show like pic4-2-2.

![pic4-2-2]

Press the [ ] button, you can zoom in the time bar, and press the [ ] button to zoom out. Users also can scroll the mouse to zoom in / out the time bar.

After zoom in the time bar, press the [ ] button you can check the previous period records, and press the [ ] button you can check the next period records.

Press [ ] button or [ ] button to view the record data of other cameras.

### 4.3 Play Files and Related Operations

You can select the camera in server list to any live view window to preview its video. You also can scroll the mouse to magnify the selected image, eight times largest, if you want to restore the enlarged image, you should click the right mouse button.

- Press this button to set partition mode of playback windows, there are 1, 4, 9 and 16 splits;
- Press this button to open all playback windows in sequence according to the order of the cameras. When you start playing the records, the upper right of the interface will change to the interface like pic4-3 showed. This is the nine divided, others are similar. You can click the [ ] button for each window to select camera to play.
Note:

If you press this button after entered the playback interface, all the cameras will start to play from the first record data of the day. If you select a point of time on the time bar and press this button, then, all the cameras will start to play from the selected time point.

- Press this button to close all cameras;
- press this button to play;
- press this button to pause;
- press this button to play next frame;
- Adjust playing speed. Click the button to resume normal play speed;
- Adjust the audio. Click the button to close the audio.

4.4 Backup

- Press this button to enter the backup interface, showed as pic4-4. You can also run the backup by pressing the icon in the main menu.
【Backup Camera】 Select the backup camera. Users can select more than one camera at one time.

【Select Begin Time】【Select End Time】 Select the begin time and end time to backup.

【Backup Data Size】 Show the size of the backup file for the selected cameras between the begin and end time. You can check the file’s value by pressing the button to show the total value.

【Unite】 Set the size for each file to be backup. You can set it to be 200M to 999M.

【Convert Quality】 Select among High, Default and Low.

**Note:**
1. Before back up, please make sure that you have inserted a flash disk with enough space.
2. The end time must later than the begin time.

### 4.5 Capture Picture and View

![Capture Picture](image)

-- Press this button to grab a picture, when a picture is grabbed, there will be a dialog pop up to ask for a file name, showed as pic4-5-1. The size of the image is resolution of the video be played.
-- Click this button to enter the window of Picture View, showed as pic4-5-2.

-- Select the channel which you want to view its grabbed picture in the drop list. Then all grabbed images of selected channel will be listed on the left side. You can double click the image name to display it on the right side.

-- Click this button to unmount your flash disk.

-- Click this button to copy all the pictures in the list to the flash disk.

-- Click this button to copy the selected pictures to the flash disk.

-- Click this button to delete the all pictures in the list.
Click this button to delete the selected pictures.

Click this button to exit the Picture View.

4.6 Icon Search

Press this button to run the icon search function, showed as pic4-6.

Select the camera you want in the drop list.

Set the time of each window plays for.

Set the begin time and the end time of the record.
Chapter 5 Channel Setting

There are two ways to go into the Channel Setting: select Channel in Main menu; click the button in the toolbar panel.

The NVSS Channel Setting includes 7 partitions: Display Setting, Video Setting, Motion Detection, Privacy Mask, Alarm Input Setting, PTZ Setting and Linkage Setting.

You can check and modify any camera’s setup in the window by selecting the camera in the drop-down list of Select Device column.

5.1 Display Setting

![Picture](image-url)

**【Channel NO.】** It displays the channel number of selected device. Users can also select the camera you want to set from the drop-down list.

**【Channel Name】** It displays the name of the selected channel.

**Note:**

1. If the selected device is an IPC, its Channel NO. and Channel Name are the same.

2. The channel name of multi-NVR should be set in the device’s IE client, it can’t be modify in the Channel Setting.

**【Brightness】【Contrast】【Hue】【Saturation】** Users can set the image parameters by dragging the label, the value range from 0 to 100. you can also press the button to restore the initial image parameter.

**【OSD】** you can configure the OSD setting by clicking the checkbox or cancel...
the OSD by unchecking.

【Display Name】 【Display Date】 【Display Week】 Users can display these parameters by clicking their checkbox or cancel them by unchecking.

【Time Format】 【Date Format】 Users can select the time format and date format in the drop-list.

【Copy settings to other channel of this device】 After finishing one channel, if you want to set any other channels’ configuration of this device as the same as this channel, you can select channel number from drop-list, and press Copy button to copy it.

【Copy settings to other same type devices】 After finishing one camera, if you want to set the same configuration to other cameras which are same types, you can select the devices number from drop-list, or select all to finish configuration copy by pressing the Copy button.

Click the Apply & Save button to apply the settings. Users can also press the Refresh button to see the result.

5.2 Video Setting

<table>
<thead>
<tr>
<th>Stream Type</th>
<th>Main Stream</th>
<th>Sub Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>704*576</td>
<td>352*288</td>
</tr>
<tr>
<td>Bit Rate Type</td>
<td>CBR</td>
<td>CBR</td>
</tr>
<tr>
<td>Image Quality</td>
<td>Highest</td>
<td>High</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Frame Interval</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Bit Rate Limitation</td>
<td>2MB</td>
<td>1024KB</td>
</tr>
<tr>
<td>Stream Type</td>
<td>Copy settings to other channel of this device</td>
<td>Copy settings to other same type devices</td>
</tr>
</tbody>
</table>

pic5-2

【Stream Type】 It shows the steam type of each column.

【Resolution】 Set the main stream resolution (The NVSS will record at this resolution) and sub stream resolution. The higher the resolution is, the more record disk space needed.

【Bit Rate Type】 Select bit rate type from Variable Bit Rate (VBR) and Constant Bit Rate (CBR):

VBR range= Poorest, Poor, Medium, Good, Best.
CBR range = 45 Megabytes/Hour to 400 Megabytes/Hour.

【Image Quality】 Set the quality of the image to be recorded. Select from Lowest, Lower, Low, High, Higher and Highest.

【Frame Rate】 Set the frame rate of camera from drop-list.

【Bit Rate Limit】 Input the maximum bit rate for the camera’s video stream.

【I Frame Interval】 Select the I Frame Interval from drop-list. Usually, the number of I Frame interval should be twice of the Frame Rate.

【Enable Video】 You can enable the video by clicking the checkbox, the audio of main stream has been enabled in by default.

【Enable Audio】 You can enable the audio by clicking the checkbox.

5.3 Motion Detection

Click the check box be in front of Enable to enable the motion detection function, then you can set the detection area and schedule.

5.3.1 Area Setting

Left-click mouse and drag it on the video to set a motion detecting area, multi-areas are supported. You can also set the whole area by pressing the Select All button, or clear all areas by pressing the Clear All button.

5.3.2 Detection Schedule
Press the button , it will pop up the sub window, showed as pic5-3-2(b), you can set the schedule in this window.

Select date firstly, then set time segment according to the sequence. After the precaution time of a certain day is set, you can copy the parameter to other dates by selecting a day and press the copy button.

Note:
The time of each segment should not be overlapped.

5.4 Privacy Mask

Click the check box of Enable to enable the Privacy Mask function. Users are allowed to setup several four-sided privacy mask zones that cannot be viewed by the operator. The privacy mask can prevent certain surveillance areas to be viewed or
recorded.

Left-click mouse and drag it on the video to select several privacy mask areas, multi-areas are supported. You can also clear the zones by pressing button.

5.5 Alarm Input Setting

【Alarm Input NO.】 Select one alarm input to be set.
【Enable】 Enable the selected alarm input by clicking the checkbox
【Alarm Type】 Select alarm type (sensor type) from “NO” (Normally Open) or “NC” (Normally Closed).
【Alarm Name】 Display the name description of the sensor.
Press the **Edit** button, it will pop up the sub window, showed as pic5-5-1, you can set the time schedule in this window.

![Schedule Edit](image)

**pic5-5-1**

Select date first, then set time schedule. After the arm schedule of a certain day is set, you can copy the parameter to other dates by selecting the dates and press the copy button.

**Note:**

The time of each schedule should not be overlapped.

### 5.6 PTZ Setting

In the **PTZ Setting** window showed in pic5-6, users can define the PTZ Presets as well as the tour group to cruise them.

**Channel** Select the camera to be set from the drop-list.

**PTZ Speed**

-- Set the speed of PTZ, users can select the speed form the drop-list.

![PTZ Speed](image)

-- Users can adjust the PTZ camera's image in the PTZ setting by these 10 buttons.
When you step in the PTZ setting, the system will stay at Preset Setup interface by default, showed as pic5-6-1, users can set presets in this window.

【Name】 Set the name for the current preset.
【Preset】 Set the preset number for the current preset.
【Mode】 Set the Mode of preset, includes Call Preset and Save Preset two modes.

<table>
<thead>
<tr>
<th>Add</th>
<th>-- Add the preset follow current configuration.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modify</td>
<td>-- Modify the preset you selected.</td>
</tr>
<tr>
<td>Delete</td>
<td>-- Select a preset from the list and delete it.</td>
</tr>
<tr>
<td>Call</td>
<td>-- Call the Preset if the Mode is Call preset. If the mode is save preset, you would save the preset and could not call the preset.</td>
</tr>
</tbody>
</table>

【Home position delay time】 Disable

-- Set the time interval for the camera to return to the home position when there is no PTZ action or
disable the auto return function. Users can select the Home Position from the drop-list, the home position includes all Tour Groups and Presets.

![Picture](pic5-6-1)

### 5.6.2 Scheme

When you press the **Scheme** button, the right interface will convert, showed as pic5-6-2. Users can set the scheme of the PTZ camera here.

![Scheme Interface](pic5-6-2)

**【Preset|Tour】** Set a preset or TourGroup and click **Add** to add it to the Preset Schedule or select one from the list and press **Delete** to remove it.
delete from the Preset Schedule.

【Call Time】【Hour】【Minute】 Set the time when the preset / TourGroup will be called.

【Copy To】 you can copy the setting of Preset|Tour, Hour and Minute to other dates.

5.6.3 Tour

When you press the button, the right interface will convert, showed as pic5-6-3. Users can set the TourGroup of the PTZ camera here.

【Tour Group】 Select the TourGroup you want to set in the drop-list.

【Preset Name】 Select the preset which you set in Preset Setting and add it into the selected TourGroup.

【Stay Time】 Select the Stay Time for the selected preset in the drop-list.

Press the button to add the preset into the Tour Group, select a preset from the list and press the button to delete it from the TourGroup.

5.7 Linkage Setup

5.7.1 Motion Alarm
【Channel NO.】 It displays the channel number of selected device. Users can also select the camera you want to set from the drop-list.

【Enable】 Users can click the checkbox to enable the motion alarm linkage function or disable this function by unchecking.

【Policy】 Handling policies will be available as follows:

【Audio Warning】 Indicate the alarm with voice;
【SendEmail】 Send an email when the alarm triggered to the email address which you set in “system setting-network setting-Email Setting”.
【Trigger Alarm Output】 Set the trigger alarm output, Users can click the checkbox [All] to select to trigger all alarm outputs, or press the button it will pop up a sub window, showed as pic5-7-1(b), you can select the output you want to trigger here.

【Trigger PTZ】 Users can enable the function to trigger a PTZ camera to call a special preset by clicking the checkbox of Enable.

【PTZ Server】 Select the PTZ server you want to set in the drop-list.
【PTZ Channel】 Select the channel of the selected PTZ server in the drop-list.
【Preset NO.】 Select the Preset of the Channel you selected.
5.7.2 Sensor Alarm

【Alarm Input NO.】 It displays the alarm input number of the selected device. Users can also select other input you want to set from the drop-list.

【Enable】 Users can click the checkbox to enable the motion alarm linkage function or disable this function by unchecking.
【Policy】 Handling policies will be available as follows:

【Audio Warning】 Indicate the alarm with voice;
【SendEmail】 Send an email when the alarm triggered to the email address which you set in “system setting-network setting-Email Setting”.
【Trigger Alarm Output】 Set the trigger alarm output, Users can click the checkbox  
 to select to trigger all alarm outputs, or press the button it will pop up a sub window, showed as pic5-7-1(b), you can select the output you want to trigger here.
【Trigger Record Camera】 Set the record cameras when alarm triggered, click the checkbox  
 to select the all cameras to record, or press the button to pop up a sub window, showed as pic5-7-2(b), to select the cameras you want to record.

![Record Channel Linkage Setting](image)

pic5-7-2(b)

【Trigger PTZ】 Users can enable the function to trigger a PTZ camera to call a special preset by clicking the checkbox of Enable.
【PTZ Server】 Select the PTZ server you want to set in the drop-list.
【PTZ Channel】 Select the channel of the selected PTZ server in the drop-list.
【Preset NO.】 Select the Preset of the Channel you selected.
Chapter 6 IE Client

Users can view videos of NVSS Server remotely through the IE Client. The default web server port is 80, you can change the port in the “System Setting --> Network Setting”.

If you changed it to other port, please add this port number after the IP or domain name of the NVSS when visit through internet explorer. E.g.: http://192.168.0.43:1280.

Note:
If you cannot download and install ActiveX automatically, please download webclient.Zip and install the webclient manually by clicking “Go to>>>. Then, the following interface will appear, showed as pic6(a):

After the ActiveX installed successfully, you will see the main window of IE Client and you can also do these operations as following:
1. Video display and video storage;
2. Audio input;
3. Searching and playback local video and remote record on NVSS;
4. Control PTZ and speed demo remotely.

When you connect the server successfully, you can see the Web Client main interface, showed as pic6 (b), and you should input valid User ID and password in right up of the interface to acquire rights to play video and other operations, video will be displayed after logged in successfully, showed as pic6 (c).
NVSS6XXX Series User’s Manual

pic6 (b)

pic6 (c)

http://www.smartvisiondirect.com/
6.1 Live View

Live view shows you the real time video image getting from the NVSS. The IE Client automatically displays the video image after you login correctly. You can set the preview video by selecting the preview camera in the Control Panel. You can also change the partition mode by pressing the corresponding button in the Toolbar and Status Panel.

6.2 Control Panel

6.2.1 Connection Operation

You can click here 192.168.0.9 to select a camera as the first connected, and click here Sub Stream to select main stream or sub stream.

Press button Login to log in the NVSS and get video, the first camera will be the one you selected in the blank under password blank. By default, the partition mode is 4. When you login, you can view 4 cameras.

Press Logout button, you can logout the NVSS.

Press button to shut down the IE Client.

6.2.2 Local Search

Press button Local Search to enter local search, showed as pic6-2-2:
-- You can select 1 partition or 4 partitions in the drop-list.

-- You can select the date you want to search.

-- You can select the camera in the drop-list.

-- You can select the video which was listed in the blank to play.

-- Press and drag slider bar o adjust video-playing time.

-- Display current window’s name, camera’s name and record data’s information.

-- Playing-control buttons, they are Play, pause and stop.

-- Single frame play buttons, they are Previous frame and next frame.

-- Playing speed control button, they are slow play and fleetly play.
6.2.3 Remote Search

Press button to enter remote search interface, showed as pic6-2-3. Most functions and operations of Remote search are the same as Local Search.

In remote playback mode, select one camera on the right side, the record file of this camera will be listed, double click on one file to play it, and click button will grab a picture, system will pop up the save path:

Press button to download the record file which you selected, then the selected data file will be downloaded onto local HDD.

6.2.4 PTZ Control
-- It supports eight directions for PTZ cameras to move up, down, right, right-up, right-down, left, left-up, left-down.

-- Press this button to initiate the connected PTZ camera to do an automatic tour of 360, but for speed dome, many PTZ factories forbid this command.

-- Zoom function of the PTZ camera control.

-- Auto-focus setup of the PTZ camera overrides, adjusted to focus the image.

-- Overrides the PTZ cameras auto-iris and brighten or darken the image.

-- press this button to operate the speed dome, including Preset Setup, Preset Call and Preset Tour.

-- Control the PTZ cameras internal relay (relay1) or the decoder’s relay (relay 1). Used to turn on a light or control an access gate.

-- Control the PTZ camera’s auxiliary equipment

6.3 Toolbar and status panel

6.3.1 Partition and Display Mode

You can set the partition mode by pressing the corresponding button under the preview screen. There are 6 partition modes as below:

-- 1 partition mode;

-- 4 partition mode;

-- 6 partition mode;

-- 9 partition mode;

-- 10 partition mode;
-- 16 partition mode.

-- Click the button to display in sequence, if the number of the server’s channel is more than partitions you selected.

-- Press this button to switch to full screen mode and Right-Single-Click image can back to normal mode.

### 6.3.2 Connect Status

This is the interface of connect status, icons above the channel number indicates the current connection status of the channel, the blue means this channel is connected successfully, the gray means not connected, the green means the channel is connected and recording.

You can change the record status by pressing corresponding number button or start all connected channels to record at the same time by pressing button.