

I. An Introduction to the Product

As the DVR product specially developed for the USB interface, the USB3104E product adopts the mainstream USB chip manufactured by CYPRESS. It has elegant black appearance and small volume, and it is easy to carry. The latest CONEXANT10-bit high definition ADC adopted at the front end features clear image effect and smooth data, and supports 1-channel real-time or 4-channel non-real-time video input. Due to the fact that it adopts the USB2.0 interface, supports D1 collection and has sound compatibility, it is suitable for monitoring small systems or using a notebook computer to conduct monitoring, and it is very convenient and practical. It adopts the currently popular H264 compression technology, which features clear image and the unique electronic amplification function and the disk pre-allocation system, enabling users to use it conveniently and quickly.

Video input: 1-4 AV interfaces

Video standard: PAL, NTSC

Total displaying resource: 30fps (NTSC) / 25fps (PAL)

Total resource of video recording: 30fps (NTSC) / 25fps (PAL)

Displaying resolution: 704×576

Video recording resolution: 704×570 / 352×288

Compression format: H.264

Compression bit rate: 64K-2Mbps selectable

Size: 98 mm × 60 mm × 20 mm

Weight: 50g

II. System Configuration Requirement

CPU: Intel Celeron2.4G or faster;

Memory: 256MB or more;

USB: Standard USB2.0 interface;

Hard disk: 40GB or above (add disk space according to the quantity of the channels and the video recording storage requirement);

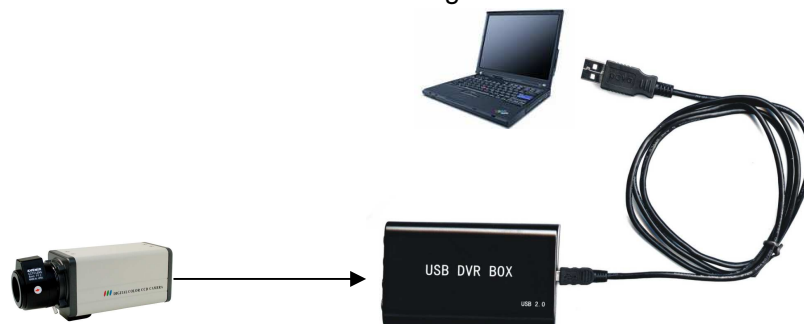
Operating system: Windows 2000; Windows XP; Windows Vista;

System setup: DirectX 9.0; 1024×768 resolution; 32-bit true color.

III. Hardware Installation



Fix the USB collection cartridge first, and then connect it to the USB port of a desktop or notebook computer via a standard data cable. The video information from the camcorder is accessed to the collection cartridge via the AV interface.



IV. Software Installation

(Windows XP is taken as the example.)

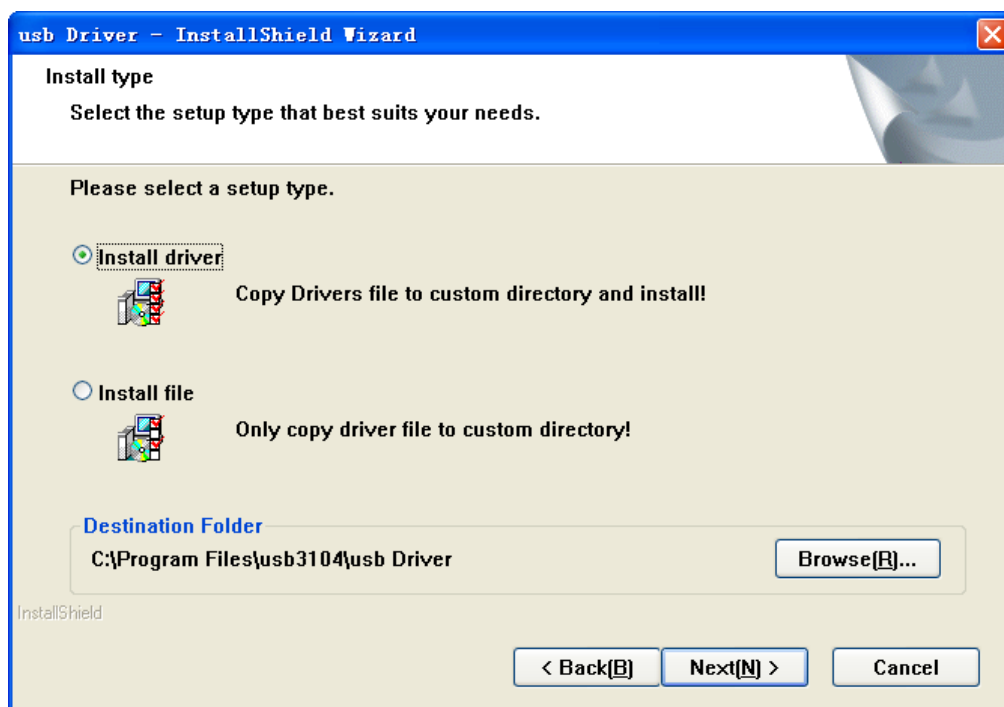
1. Installing driver

Insert the software CD, which is shipped with the USB collection cartridge, into the CD drive to allow it to run automatically to display the installation interface (if it cannot automatically run, it is advisable to access the CD root directory to run Setup.exe).

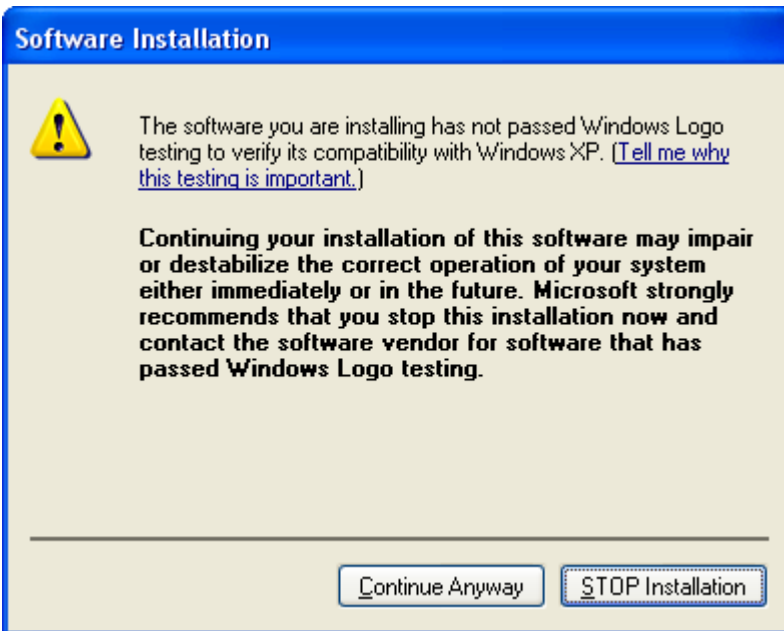


Click “Driver” (ensure that the collection cartridge is connected to the USB port of the computer), and then click “Next” in the popup installation interface.

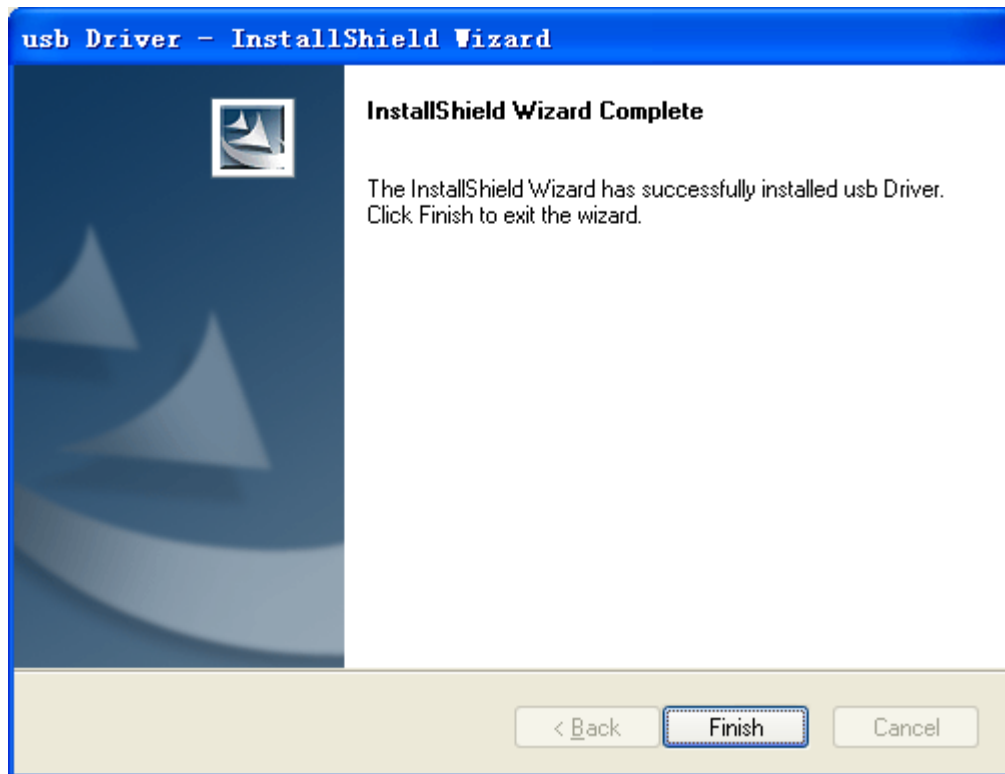
Follow the instructions to select the installation type and the installation path. If the USB confirms that it is connected to the computer, it is recommended to adopt the default “Install driver”. If you select “Install file”, you would have to manually install the driver when the installation is completed.



In installing the driver, if a dialog box prompts that the driver fails to pass the Windows test, click “Continue”.



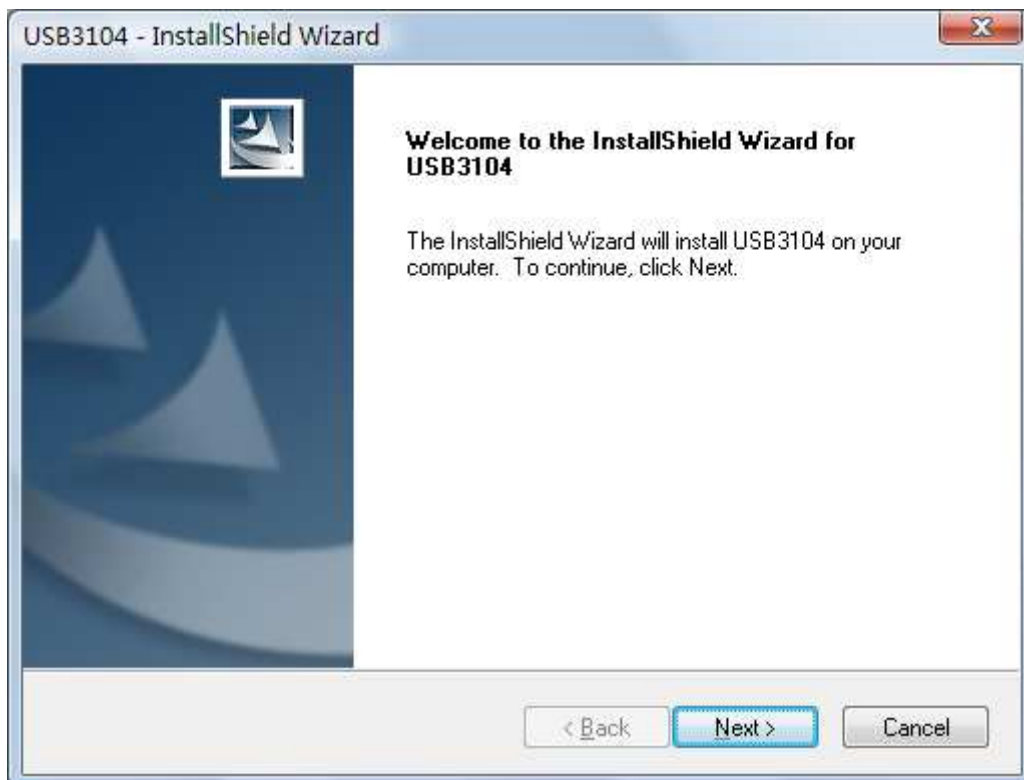
When the installation is completed, click "Finish".



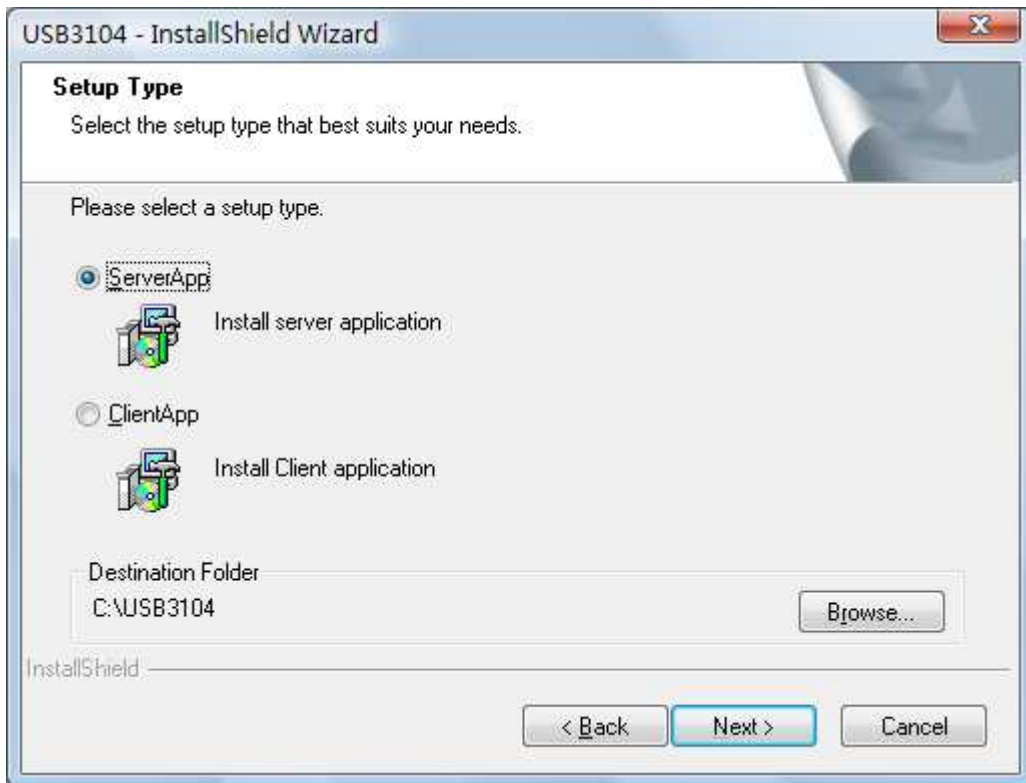
- ◆ When the driver installation is completed, it is necessary to restart the computer or hot plug/unplug the USB collection cartridge once.

2. Installing application program

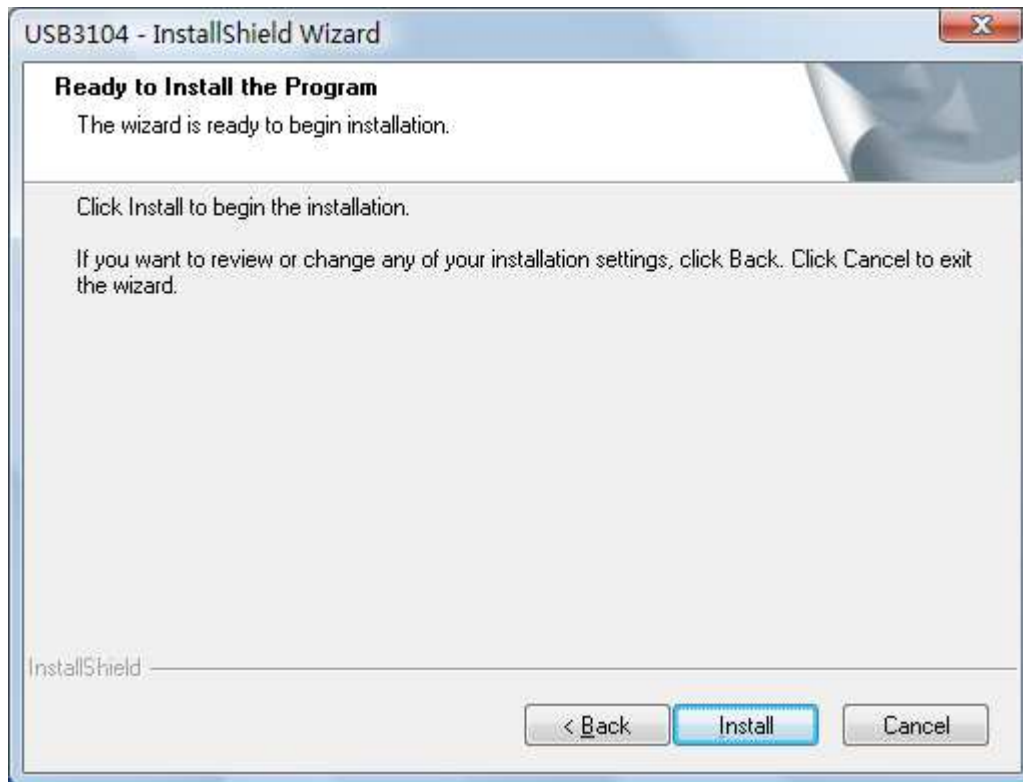
On the initial interface of the CD, click "Software" to display the application program installation interface, and then click "Next".



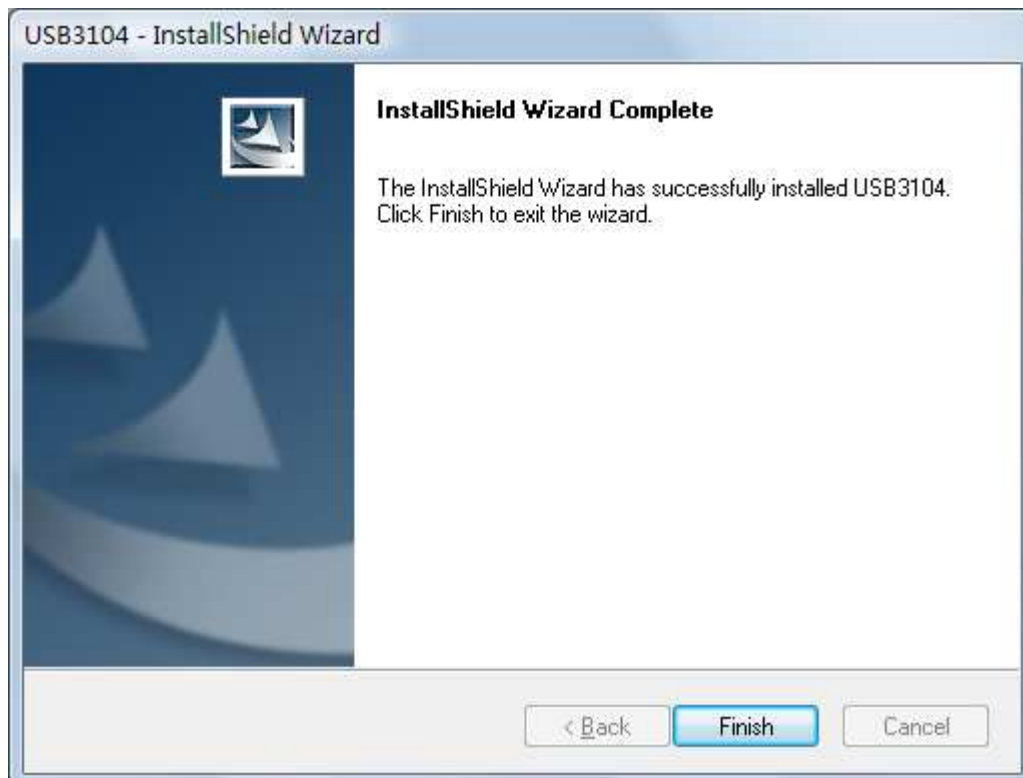
When the “Setup type” dialog box appears, click “ServerApp” (the computer on which the collection cartridge is installed)” or “ClientApp” (a remote computer that is to view the video) as needed. It is advisable to click “Browse” to specify an installation folder. By default, it is installed in the “\USB3104E” directory in the system disk. Click “Next”.



To confirm installation, click “Install” to start the installation, or “Back” to return to the change the installation settings.



After the installation is completed, click "Finish".



When the installation is completed, a shortcut "USB Server" will be generated on the computer desktop to execute the main program, double-click it to enter. Default

2. Picture Preview:



The main monitoring interface is divided into the video display zone and the control panel zone.

Within the video display zone, there is the multi-channel splitting display. You can amplify a certain channel by double-clicking the channel, and you can select the full-screen mode by clicking within the right key menu.

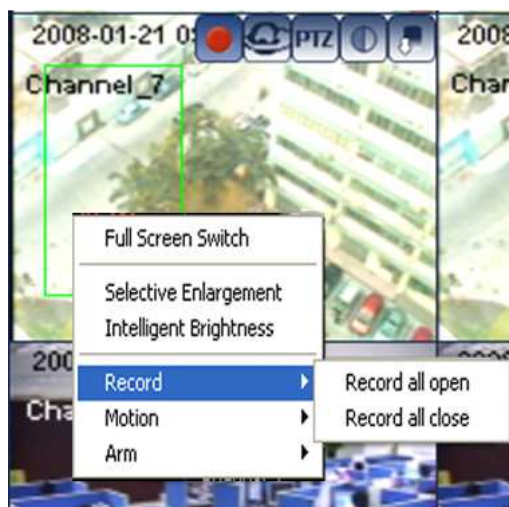
The control panel zone is the function zone for setting up or controlling the parameters of the software and image.

When being placed on the image of a certain channel, the mouse may activate the shortcut function button at the upper right corner of the image, and from left to right, they are "Video recording", "Sense", "PTZ control", "Video adjustment", and "Frame capture".



3. Manual Video Recording:

The manual video recording is the fastest in video recording after entering the software. It is advisable to directly click the shortcut video recording button of a certain channel to start this channel video recording (the color red indicates the status of being in video recording), or click the right key of the mouse within the image zone to select "Video recording"→ "Fully open video recording" to open the video recordings of all channels.



4. Timed Video Recording:

The timed video recording refers to conducting video recording according to the period set up by the user, and it is planned, secure and stable.

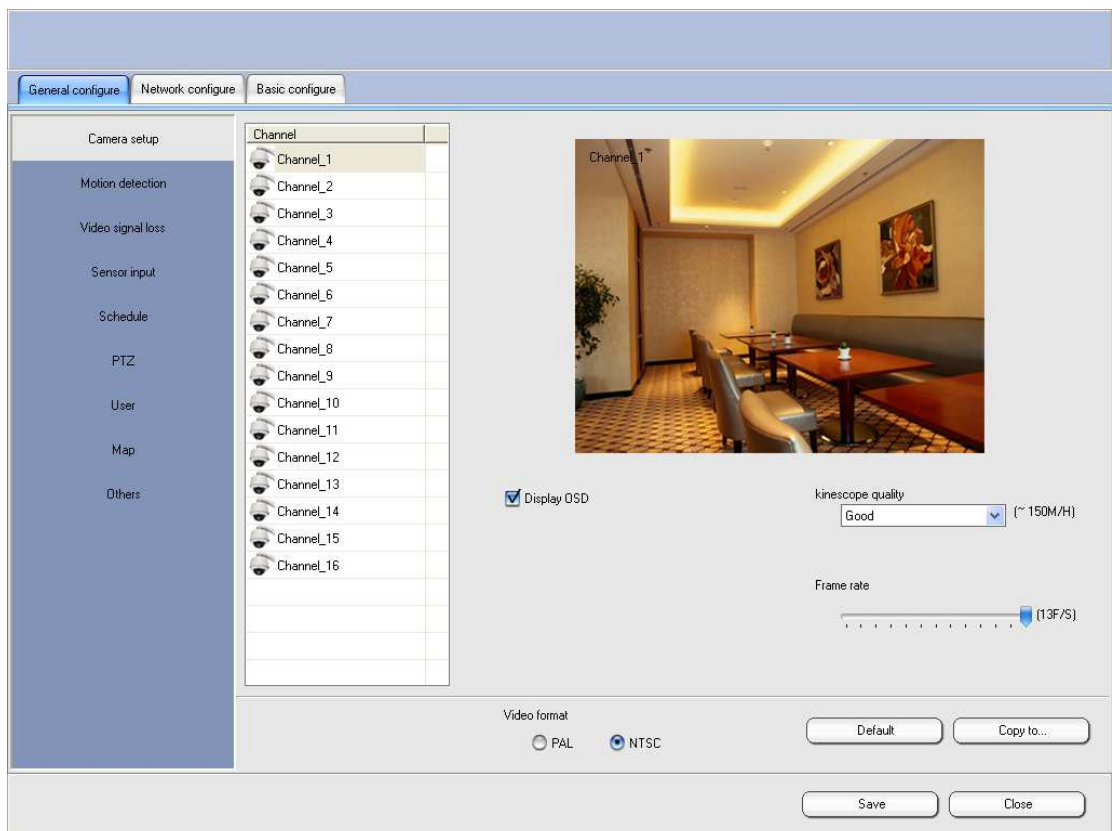
Click “Setup” on the right side of the main interface to enter the “Work Plan” option in the “Common setup”.

Firstly select the number of the corresponding channel in the video, and then click “Add” on the right, and add the video recording time period in the time period, with one week as a cycle. Different video recording time periods can be set for each day, and the default 0:00:00-23:59:59 is a whole day. If only the timed video recording is arranged, then it is necessary to select the “Motion sensing” plan as NO.

On the upper right, click “Copy this day to...”, and you can copy the set video recording time period of a certain day as the same for one week.

On the lower right, click “Copy to ...”, and you can copy the set time period of a certain channel to other channels.

When the setup is completed, saved and closed, the software starts recording video according to the work plan.

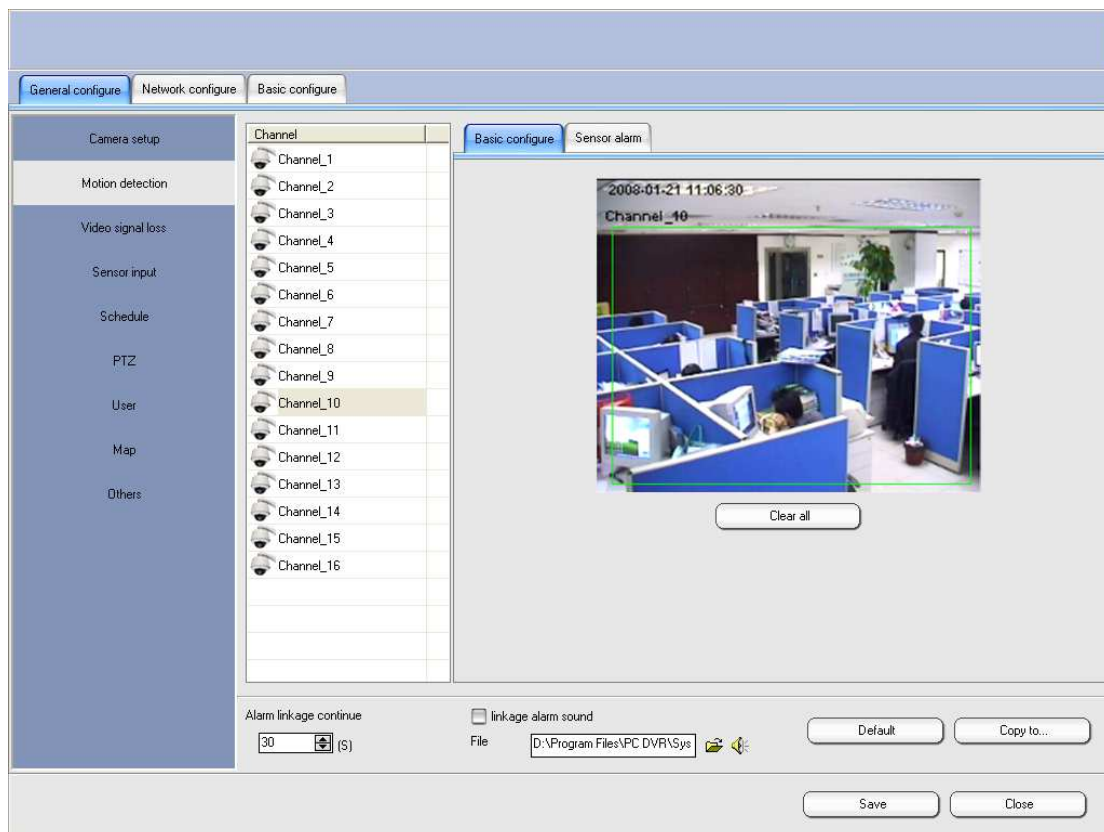


5. Motion Sensing Video Recording:

The motion sensing function is to detect whether the video has any action which will trigger some software functions, including video recording, warning and audio.

Click “Setup” in the main interface to enter the “Motion sensing” option in the

“Common setup” and select the corresponding channel. In the image box of the “basic setup”, press the left key of the mouse and draw rectangle sensing zones of any sizes to which many zones can be added. Only when an object moves in the set zone, will the video recording or warning (if no zone is set, full-screen sensing is conducted by default) be triggered. It is advisable to click “Copy to...” on the lower right to copy the zone setup of the current channel to other channels.



“Trigger cooperation” is an optional action of the cooperation-related software when the motion sensing is triggered. By default, the software records each channel. You can edit other trigger functions, such as warning output, and network upload.

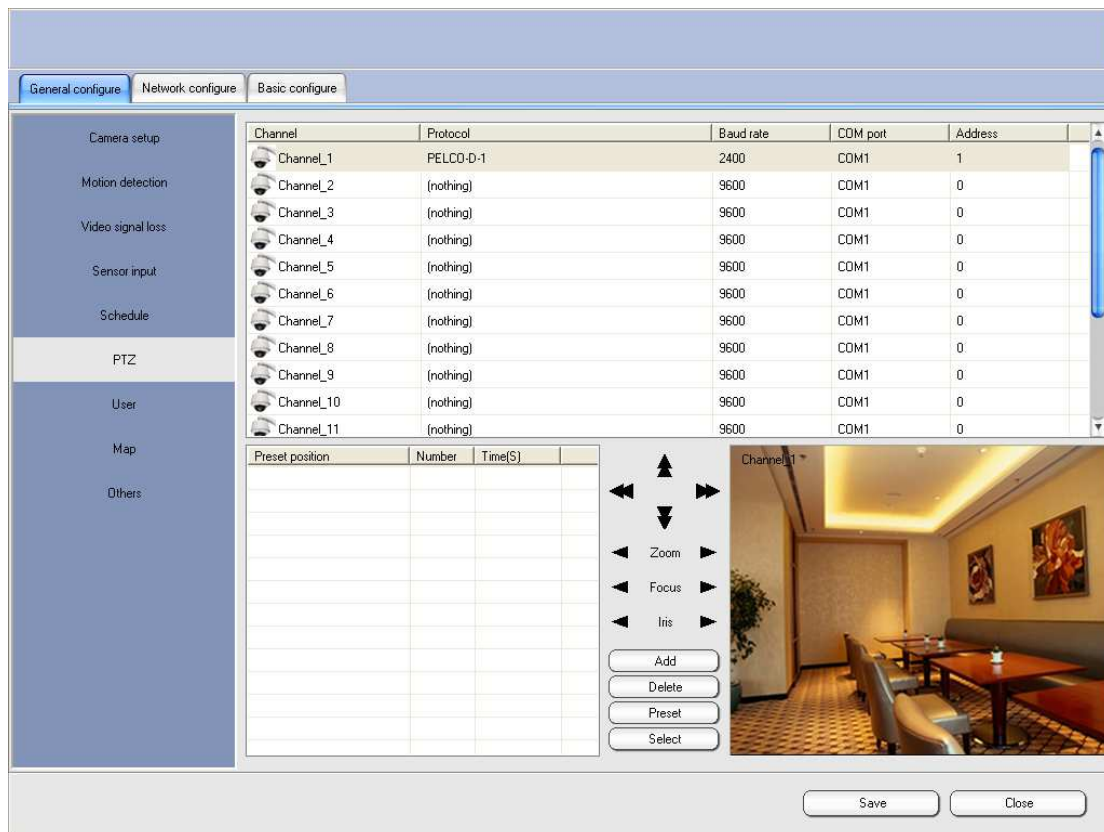
“Cooperation continuation”: The delay time of the cooperation task after sensing is triggered.

“Cooperation audio”: After it is triggered, you can select the mode that the wav audio file play is output by the audio card.

decoder manual.

“Serial port”: The COM port of the computer to which the code converter is connected.

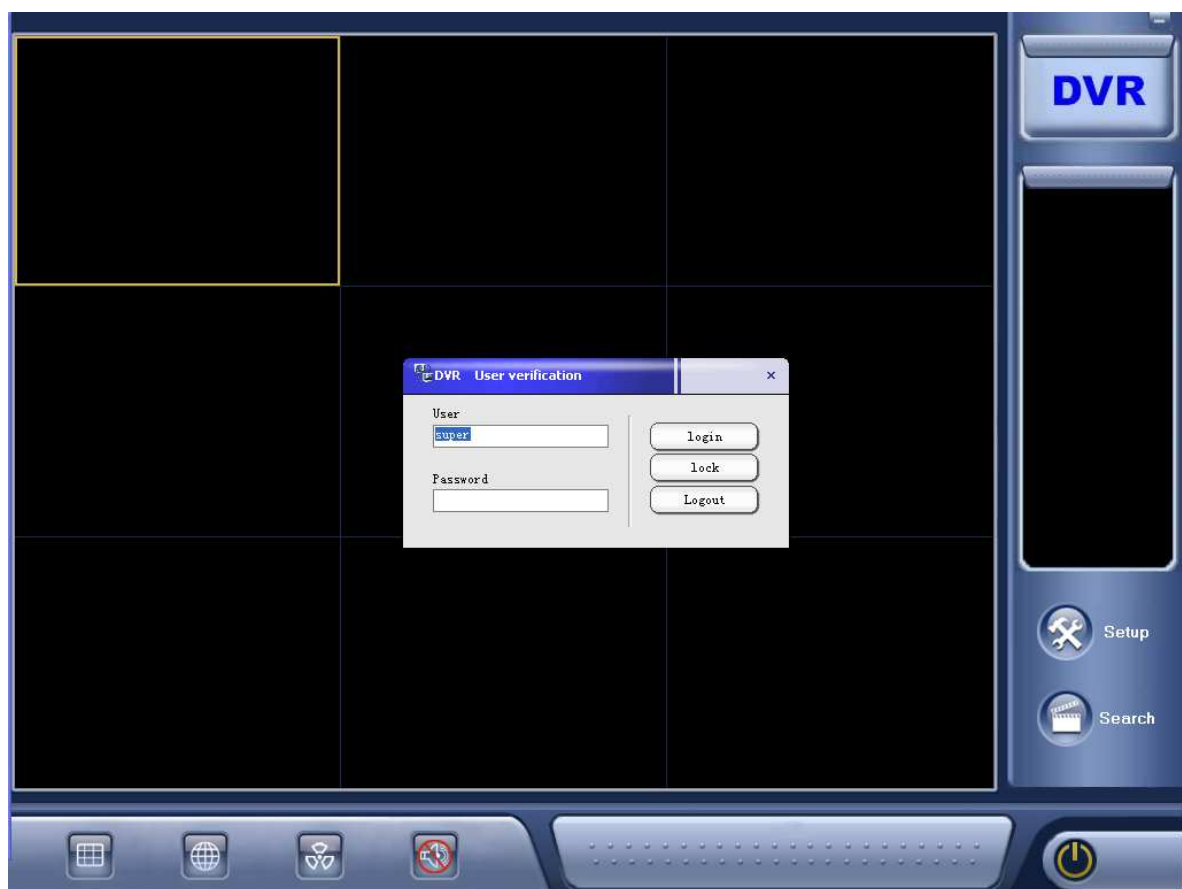
“Address”: Address code of the decoder.



When the setup is completed, click “Save”, and you can conduct the test in control zone on the lower right. You can also return to the main interface and click “PTZ” in the shortcut function button on the upper right of the setup channel to control the corresponding decoder.

8. Client Connection:

When running normally, the host can install the client program in any computer in the network that is connected to the host, and to conduct remote image browse, review and control. In stalling the program, select "Client" installation, and when it is completed and closed, execute "USB client" start client program in the desktop client shortcut mode.



Click "Setup" → "DVR setup" to enter the setup interface of the host address channel, and click "Add" on the upper left button to add the DVR host:

DVR name → Customize each the name of each DVR host.

Address → Input the IP address or domain name of the host.

Network port → Communications port, keep consistent with the host end, and is port 80 by default.

Username → If the host has set up network authentication, fill in the corresponding username, and if it has not set up the authentication, it is allowed not to fill in the username.

Password → The password for network authentication, and it is allowed not to fill in if no password is set up.

When the information such as Host address is added, in the "Camcorder" option on the left, add the number of the channels that need to monitor this host. When the setup is completed and saved, close the interface.

The screenshot shows a software interface for configuring DVR hosts and channels. It consists of a main window and a smaller inset window.

Main Window:

- Buttons: "Add", "Delete"
- Table with columns: DVR Name, Address, Network port, User name, Password
- Row 1: DVR_1, 192.168.1.12, 80, , *****
- Buttons: "Camera", "alarm box input", "alarm box output"
- Buttons: "Add", "Delete"
- Table with columns: channel, Name
- Rows: 1 Channel1, 2 Channel2, 3 Channel3, 4 Channel4, 5 Channel5, 6 Channel6, 7 Channel7, 8 Channel8
- Buttons: "Save", "Close"

When the DVR setup is completed and closed, click “System setup” → “Group setup” on the main interface to enter the group setup interface. Click “Add” on the upper left to add the group. In the “Name” column on the left, enter the group name.

The screenshot shows a web-based interface for group setup. On the left, there is a sidebar with a tree view containing 'group structure' and 'name'. The main content area has a 'Name' label above a text input field. Below the input field are 'Add' and 'Delete' buttons. There are two empty tables with headers: the first table has 'Camera name', 'DVR Name', and 'Channel'; the second table has 'alarm input name', 'DVR Name', and 'Channel'. At the bottom right, there are 'Save' and 'Close' buttons.

When the group name is added, click “Add” to add camcorder channel to this group. In the popup device list, select the previously added DVR host, select the channel corresponding to this host, and then click "OK" to exit the device list, save and close the group setup item. Return to the main interface of the client.

The screenshot shows a 'TE DVR device list' popup window. It contains two tables. The first table has columns 'DVR Name' and 'Address', with one row containing 'DVR_1' and '192.168.1.12'. The second table has columns 'channel' and 'Camera name', with 8 rows, each containing a checked checkbox, a channel number (1-8), and the name 'Channel1' through 'Channel8'.

DVR Name	Address
DVR_1	192.168.1.12

channel	Camera name
<input checked="" type="checkbox"/> 1	Channel1
<input checked="" type="checkbox"/> 2	Channel2
<input checked="" type="checkbox"/> 3	Channel3
<input checked="" type="checkbox"/> 4	Channel4
<input checked="" type="checkbox"/> 5	Channel5
<input checked="" type="checkbox"/> 6	Channel6
<input checked="" type="checkbox"/> 7	Channel7
<input checked="" type="checkbox"/> 8	Channel8

Name

group structure

name

Camera name	DVR Name	Channel	
Channel1	DVR_1	1	
Channel2	DVR_1	2	
Channel3	DVR_1	3	
Channel4	DVR_1	4	
Channel5	DVR_1	5	
Channel6	DVR_1	6	
Channel7	DVR_1	7	
Channel8	DVR_1	8	

alarm input name	DVR Name	Channel	

After returning to the main interface, you find that the group and channel information appear in the information column on the right, and you can right click the group name to monitor all the images or double-click a single channel to monitor the image.

- ✧ **This manual only briefly introduces the above basic functions. If you need more detailed software operation description, please refer to the detailed operation manual for the software or help file.**

VI. Frequently Asked Questions

- ◆ **When the monitoring software is operated, the system operation is slow or image frame loss and software misreport occur.**

View the occupancy of the CPU and memory. If it is in the saturation status, maybe the CPU frequency is too low or problems occur to other computer computers. It is recommended to use the Celeron D 2.66G or faster CPU and high-quality memory and video card.

- ◆ **When the software runs, there is no image or abnormal image in the display box.**

Firstly determine whether the computer USB interface is the 2.0 standard. If yes, then the 1.1 interface cannot be used normally. Check whether the video information source is normal. It is required to install DirectX8.0 above, and the display should be set as resolution 1024*768, and the color should be 32-bit real color.

- ◆ **In the first running of the software, it is impossible to create the database.**

It must be ensured that the hard disk has at least two partitions, and the system disk file system must also be in the NTFS format and the remaining capacity must be at least over 1G.

- ◆ **The storage, backup and play of the video recording file**

The database takes the pre-allocated space mode, and the space of he selected partition is all occupied after the creation of the database, and it is impossible to view its file in the windows. If it is necessary to back up the video recording data, it is advisable to dump it in the review interface to other disk partitions. The dedicated player of the video recording file is in the Player folder under the installation directory.

- ◆ **The client and IE cannot browse the host image.**

Firstly make sure that the connection between the computer on the network and the host is normal. Check whether other application software occupies the 80 port at the host end. It is advisable to modify the network port in "Setup" → "Network setup" → "Communications parameter". When the IE accesses the network, it is necessary to minimize the IE security level of the computer so that the control can be downloaded normally. When Windows XP operating system cannot lower the security level, it is advisable to enter the IE security user-defined level to change all disabled items into prompt or enabled items.