User Manual

xmartO Wireless NVR System

Ver. 1.4
Preface

Thank you for purchasing xmartO products! This user manual is to introduce the operations of xmartO wireless camera systems in more details. If there is any other question which is not covered in this user manual, please contact xmartO support.

Statement

- Though we apply all efforts to make the manual complete and accurate, there could still be some discrepancies due to products’ timely update.
  - The products and manual are subject to change without previous notification.
  - The content in this manual is only for users’ reference. We don’t promise it’s exactly the same with the products you purchase. Detailed information is in accordance with the final products.
  - The accessories and parts mentioned in this manual are only for product using guide purpose and not necessarily to be included in your purchased item.

Special Statement

Please comply with local laws and regulations when you use the surveillance devices.

About default settings

- The default user account ID is super administrator ID: admin.
- The default password for account ‘admin’ is empty.
- The default IPv4 address of device is: 192.168.1.1
- The default setting of NVR is to overwrite earliest recorded videos when hard drive is full.
- The device will start Setup Wizard by default when NVR is powered on.
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Tips: If you don’t find your answer here, please logon http://www.xmarto.com/support/ for FAQ; or contact support@xmarto.com
1. Product features overview

1.1 Product introduction

The xmartO WNO series network video recorder is our new generation of NVR. It supports wireless WiFi network video input, real time live view, video codec and video playback. The NVR system can be widely used for surveillance of home, business, office and villa.

1.2 Product Specifications

NVR

**4CH NVR (WNO14)**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV (audio/video) input</td>
<td>Operating System: Embedded Linux OS</td>
</tr>
<tr>
<td>Operating System: Embedded Linux OS</td>
<td>Network Video: 4CH</td>
</tr>
<tr>
<td>Network video input broadband: 20Mbps</td>
<td>Audio Bitrate: 64Kbps</td>
</tr>
<tr>
<td>AV (audio/video) output</td>
<td>HDMI input: 1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p</td>
</tr>
<tr>
<td>Video codec and video playback</td>
<td>VGA output: 1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p</td>
</tr>
<tr>
<td>AV CODEC Specification</td>
<td>Video Resolution: 960p</td>
</tr>
<tr>
<td>Video Resolution: 960p</td>
<td>synch-playback: 4CH</td>
</tr>
<tr>
<td>Video Control</td>
<td>Video Capture mode: Manual, Time, Motion, Alarm</td>
</tr>
<tr>
<td>Video Capture mode: Manual, Time, Motion, Alarm</td>
<td>Playback mode: Real time, Routine, Event</td>
</tr>
<tr>
<td>Backup: USB backup</td>
<td>Hard Disk: Type: 1*SATA interface</td>
</tr>
<tr>
<td>Max Capacity: 4TB Maximum</td>
<td></td>
</tr>
<tr>
<td>External Interface</td>
<td>Network Interface: 1 adaptable RJ45 10M/100M, 1 WiFi interface</td>
</tr>
<tr>
<td>Network Interface</td>
<td>USB Interface: 2 USB 2.0</td>
</tr>
<tr>
<td>Network Control</td>
<td>Network Control: Protocol: UPnP/ SMTP/ PPPoE/ P2P/ DHCP etc.</td>
</tr>
<tr>
<td>Others</td>
<td></td>
</tr>
<tr>
<td>Power Supply: DC12V 3A</td>
<td>Power Consumption (W): ≤5W (Without HDD)</td>
</tr>
<tr>
<td>Power Consumption (W): ≤5W (Without HDD)</td>
<td>Operate Temperature (°C): -10°C(14°F)~55°C(131°F)</td>
</tr>
<tr>
<td>Operate Temperature (°C): -10°C(14°F)~55°C(131°F)</td>
<td>Working Humidity (%): RH: 10%~95%</td>
</tr>
<tr>
<td>Working Humidity (%): RH: 10%~95%</td>
<td>Size: 257mm(W) * 210mm(V) * 45mm(H)</td>
</tr>
<tr>
<td>Size: 257mm(W) * 210mm(V) * 45mm(H)</td>
<td>Weight (excluding HDD): ≤1kg</td>
</tr>
</tbody>
</table>

**8CH NVR (WNO18)**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV (audio/video) input</td>
<td>Operating System: Embedded Linux OS</td>
</tr>
<tr>
<td>Operating System: Embedded Linux OS</td>
<td>Network Video: 4CH</td>
</tr>
<tr>
<td>Network Video input broadband: Wireless input</td>
<td>Network video input broadband: 72Mbps/ Wired input 100Mbps</td>
</tr>
<tr>
<td>AV (audio/video) output</td>
<td>Audio Bitrate: 64Kbps</td>
</tr>
<tr>
<td>HDMI input: 1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p</td>
<td>VGA output: 1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p</td>
</tr>
<tr>
<td>AV CODEC Specification</td>
<td>Video Resolution: 960p</td>
</tr>
<tr>
<td>Video Resolution: 960p</td>
<td>synch-playback: 4CH</td>
</tr>
<tr>
<td>Video Control</td>
<td>Video Capture mode: Manual, Time, Motion, Alarm</td>
</tr>
<tr>
<td>Video Capture mode: Manual, Time, Motion, Alarm</td>
<td>Playback mode: Real time, Routine, Event</td>
</tr>
<tr>
<td>Backup: USB backup</td>
<td>Hard Disk: Type: 1*SATA interface</td>
</tr>
<tr>
<td>Max Capacity: 4TB Maximum</td>
<td></td>
</tr>
<tr>
<td>External Interface</td>
<td>Network Interface: 1 adaptable RJ45 10M/100M, 1 WiFi interface</td>
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<td>Network Interface</td>
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<td>Network Control: Protocol: UPnP/ SMTP/ PPPoE/ P2P/ DHCP etc.</td>
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<tr>
<td>Others</td>
<td></td>
</tr>
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<td>Power Consumption (W): ≤5W (Without HDD)</td>
</tr>
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</tr>
<tr>
<td>Size: 257mm(W) * 210mm(V) * 45mm(H)</td>
<td>Weight (excluding HDD): ≤1kg</td>
</tr>
</tbody>
</table>
1.3 Product Key Features

- H.264, 720p/ 960p/ 1080p wireless network video recorder
- Built-in high-performance high-stability Wi-Fi router module; 720p & 960p NVRs support 802.11b/g/n protocol, 1080p NVRs support 802.11a/n protocol.
- Add Wi-Fi IP network camera to NVR by auto match-code.
- Video live view/ record/ playback/ backup
- Easy usability (wireless easy pairing, setup wizard, frequently used function menu, e-seenet)
- Support IPC with ONVIF & N1 protocol
- Network services supported: P2P, DHCP, DDNS, PPoE, E-Mail, FTP etc.
- Multiple alarm trigger (video loss/ motion detection) and alarm output (buzzer/E-Mail/FTP etc.)
- Support access and control from Android/ Apple phones (or tablets)
- Support access and control from PC via PC client software and IE.
- Support IP camera settings (codec, image adjustment, OSD display etc.)
- Support motion detection with IPC
- Support video cover with IPC
- Support user authority management.
2. Operation Instructions

2.1 Front Panel

1. **POWER**: Power Indicator
2. **HDD**: Hard Drive Indicator
3. **Operation Indicator** – When IPC is connected to the NVR, this indicator will blink green

2.2 Rear Panel

1. **VGA**: VGA Video Output
2. **HDMI**: HDMI Output
3. **USB**: USB Ports
4. DC12V: Power Input
5. WAN: Connect your NVR to router for Internet connection
6. LAN1 – LAN3: IPC video inputs (only when necessary)
7. Wi-Fi Antenna connectors

2.3 Mouse Operations

<table>
<thead>
<tr>
<th>Button</th>
<th>Operation</th>
<th>Effect</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left button</td>
<td>Single click</td>
<td>Choose object</td>
<td>1. Choose button, drop-down box, list box, check box</td>
</tr>
<tr>
<td></td>
<td>Double click</td>
<td>Zoom window</td>
<td>1. Switch between multiple view mode and single view mode</td>
</tr>
<tr>
<td></td>
<td>Drag</td>
<td>Set zone</td>
<td>1. Set motion detection zone, 2. Choose digital zoom zone</td>
</tr>
<tr>
<td>Middle button</td>
<td>Scroll</td>
<td>Change contents</td>
<td>1. Change drop-down box content, 2. Switch channels under single view mode</td>
</tr>
<tr>
<td>Right button</td>
<td>Single click</td>
<td>Exit</td>
<td>1. Exit the interface, 2. Enter quick menu</td>
</tr>
</tbody>
</table>

2.4 Input Method

![Image 3]

<table>
<thead>
<tr>
<th>Name</th>
<th>Buttons</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>0~9</td>
<td>Type in number 0~9</td>
</tr>
<tr>
<td>Character</td>
<td>- / . _ * # @</td>
<td>Type in symbols</td>
</tr>
<tr>
<td>Caps</td>
<td>caps</td>
<td>Switch capital and small letter</td>
</tr>
<tr>
<td>Back space</td>
<td>←</td>
<td>Delete the character ahead of cursor</td>
</tr>
</tbody>
</table>
2.5 User Interface Introduction

2.5.1 User Interface Element Description

<table>
<thead>
<tr>
<th>Name</th>
<th>Operation</th>
<th>Effect</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button</td>
<td>Left click mouse</td>
<td>Save or cancel</td>
<td>Apply, confirm, cancel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Open sub interface</td>
<td>Edit, setting</td>
</tr>
<tr>
<td>Edit box</td>
<td>Left click mouse</td>
<td>Edit</td>
<td>Edit password</td>
</tr>
<tr>
<td>Drop-down box</td>
<td>Left click mouse</td>
<td>Select</td>
<td>Choose language</td>
</tr>
<tr>
<td>List box</td>
<td>Left click mouse</td>
<td>View</td>
<td>Channel information</td>
</tr>
<tr>
<td>Check box</td>
<td>Left click mouse</td>
<td>Select or cancel</td>
<td>Setup wizard display, display e-seenet at preview</td>
</tr>
<tr>
<td>Text</td>
<td>None</td>
<td>Instructions</td>
<td>Title, name</td>
</tr>
</tbody>
</table>

2.5.2 Frequently-used Button Description

<table>
<thead>
<tr>
<th>Name</th>
<th>Icon</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td><img src="Ok.png" alt="Ok" /></td>
<td>Save and apply operation, close window</td>
</tr>
<tr>
<td>Cancel</td>
<td><img src="Cancel.png" alt="Cancel" /></td>
<td>Cancel the operation</td>
</tr>
<tr>
<td>Apply</td>
<td><img src="Apply.png" alt="Apply" /></td>
<td>Save and apply operation, stay at the window</td>
</tr>
<tr>
<td>Copy to</td>
<td>![Copy to](Copy to.png)</td>
<td>Copy the settings of this channel to other or all channels</td>
</tr>
</tbody>
</table>

2.6 Menu Introduction

**System setup:** General setup, Record setup, Network setup, System Admin.
**Right-click Menu:** Split screen, Video playback, Video backup, PTZ control, Color adjust, Volume, Manual record, System setup, Setup Wizard, IPC Add, Exit System.

3. Installation and Connection

3.1 Installation Precautions

Please refer to below tips while install and use the device:
1. To extend the life of the device, please keep the device away from water, high temperature, and dust. Use it in a well-ventilated place.

2. Please use SATA hard drive, USB devices and mouse purchased from authentic channels.

3. Before use, please ensure the NVR has correct ground connection. Power source should not exceed the indicated normal working voltage range in the specs sheet.

### 3.2 Install Hard Drive

Install a hard drive (if your system has preinstalled HDD, please skip this step)

1. Unplug your NVR from power, unscrew and remove the top cover.
2. Connect the SATA power and data cables from the NVR to the corresponding ports on your HDD (as shown).
3. Place the HDD into the NVR. Any cable should cross up over the HDD.
4. Holding the hard drive and the DVR gently turn it over and line up the holes on the hard drive with the holes on the NVR. Using a Phillips screwdriver, screw the provided screws into the holes. Assemble the cover.

When an HDD is installed into the NVR for 1st time, it will remind you to format the HDD. If you are using your existed HDD, please make sure to backup the data before.

### 3.3 Preparations before installation

1. Decide the location of NVR. It is suggested to place the NVR at the center of monitoring area. Avoid any avoidable obstacle between the cameras and the NVR.
   1) When there is no obstacle, cameras can be mounted about 60m away from the NVR (approx. 200ft);
   2) When there is one wall in between, reduce the distance to 30m (approx. 100ft);
   3) When there are 2 walls in between, reduce the distance to 15m (approx. 50ft);
   4) When there are more than 2 walls between camera and NVR, we suggest using extendable antennas to bring camera’s antenna inside walls while leaving camera out; or use network cable to connect the camera to NVR.
* (The Wi-Fi range mentioned above vary in different environments; data only for reference)
2. Test the system before installation. Connect the NVR to a monitor/ TV via VGA or HDMI, connect it to power with included power adapter (bigger one is for NVR); mount antennas for cameras, connect cameras to power. If you see images from all cameras within minutes, you can go ahead to mount the cameras to where you want. If not, please follow step 4.3.2 to add the camera to system.

3.4 Camera Mounting Spots

1. Mount the cameras anywhere within the Wi-Fi range, connect them to power with included power adapters (smaller ones are for cameras).  
2. The cameras should start to stream videos to NVR within 1 minute.  
3. If it does not display video on the NVR’s screen, the distance should be too long or there are too many obstacles. Please move the cameras closer to the NVR.

3.5 Antenna Mounting Tips

The NVR’s antennas radiate signal to all around. The signal pick-up is best while antennas are on same height and parallel. If the cameras cannot be at same height with NVR, please keep their antennas parallel.
4. Operation system introduction

4.1 Starting up/ log in/ log out/ restart

4.1.1 Starting up

Note:
- Please ensure the input voltage fit the NVR’s requirements and the NVR has correct ground connection.
- Unstable power source may cause unstable working status or even damage the NVR. If you have unstable power source in your area, please use voltage-stabilized power source.

Tips:
- Before power on the NVR, please connect the NVR to a monitor or TV.

Steps to start the system:
1. Plug in the power to NVR, the power indicator on front panel should light up.
2. Turn on the power switch at the rear panel. If the screen is getting output from NVR, you should see the starting page as shown in Figure 7. If not, please check connection.

![Image 7](image-url)
4.1.2 Log in

After system initialized, the system will pop out below login interface. Users must log in to do further operations.

![Login Interface](image)

**Operation Steps:**
1. Left click mouse in the user name edit box to type in user ID and password. Default user ID is `admin`.
2. Left click mouse in the password edit box to type in user password. Default password is empty; means leave it blank without typing anything.
3. Click “OK”, you shall be logged in to the system.

**Tips:**
- The password can be combined with numbers, characters or * #. The length should be less than 10 characters.

4.1.3 Log out

If you want to log out while using the system, you can right click the mouse, choose “Exit System” from drop-down menu and click “logout”. As shown in Image 9.

![Drop-down Menu](image)

If you want the system to auto logout, please go to “System setup” – “General setup” to enable the auto logout. The system will auto logout if there is no operation within 1 minute. User ID and password will be required for next login.
4.1.4 System Restart

If you want to restart the system while using it, you can right click the mouse to get drop-down menu, click “Exit System” and select “System reboot”.

4.2 Setup Wizard

When you succeed login the system, it will automatically enter Setup Wizard to guide users to do basic settings. You can also right click your mouse or cancel on mouse to dismiss the settings.

Operation Steps:
General settings (Image 10): You can set time zone, time, language, and keypad type. Click “Next” after finishing your selection.

![Image 10](image10.jpg)

1. Hard drive settings (Image 11): It displays list of current hard drives; including the hard drive model #, capacity, usage, status and format status. If you want to format the hard drive, select the hard drive and click format. It will take some seconds to format the hard drive. When hard drive is successfully formatted, the status will show ‘Formatted’. (You will lose all data on the hard drive if you format it. Please backup the data before formatting the hard drive.)

![Image 11](image11.jpg)

Record settings (Image 12): You can select record time period, week, and 3 optional record modes
including Time, Motion and Alarm. The color bars display record periods and modes intuitively. After the settings, click “Next” to enter next settings.

![Image 12](image12.png)

2. Network settings (Image 13): You can choose to enable DHCP so the NVR gets IP automatically, or allocate IP, gateway, and subnet mask, DNS etc. For beginners please enable DHCP and go “Next”.

![Image 13](image13.png)

3. Video management (Image 14): Skip it since your system is paired when they come out from factory.
4. Setup Wizard (Image 15): If you don’t want to go through these settings when the system restarted, please unselect the setup wizard and complete the settings.

4.3 Video Management

4.3.1 Search Device

Function Description: Find all IP cameras in the same network segment. 
Operation Steps: Right click mouse in your system, choose “IPC Add” from the drop-down menu, select “Video manage” to enter video manage interface (Image 16). Click “Refresh” to find IP cameras.
4.3.2 Add Device

**Function Description:** Add IP cameras in the search results list to your NVR.

**Operation Steps:**

1. **Match Code Statement:**
   The main purpose of “Match Code” is to match the IP Cameras to NVR, transmit the NVR’s WiFi hotpot and password to IP Cameras, so that the IP cameras automatically connect to NVR and transmit the video signals to NVR wirelessly. Before match code, please delete the bad channels first.
   (Note: IP cameras pre-packed in the kits do not need this operation, newly added IP cameras or NVR need this operation only when their ESSID or password has been changed)

2. **Match Code:**
   1) Take the new camera close to NVR, and connect the camera to power using included power supply.
   2) Use a network cable to connect the IP Camera to any of NVR’s LAN port, right click mouse in your system, choose “IPC Add” from the drop-down menu (as shown in Image 17); you should then be able to see interface showing information of your cameras (above) and channel information of your NVR(below), as shown in Image 18.
   3) Find out your new camera on the above box, select it; if you don’t see your new camera, click Refresh. Normally a new camera shows Mode “UNKNOWN”.
   4) Select an unoccupied channel of your NVR from below box, and click “Match Code”. It will take seconds for the camera and NVR to get connected. After it’s successfully connected, you should see Status switch to “Connect Success” on the channel.
   5) Then you can unplug and move the camera to anywhere you want. When it gets power, it will automatically reconnect. (Camera need to be in the Wi-Fi range)

**Tips:**

1. Make sure your camera is powered and connected to the NVR. You can cover the lens with your hand to see if LEDs light up. If they do, it means your camera is getting power.
2. If you want to change camera of a certain channel, select and delete that channel in the NVR channel list, match code the right camera to the channel you want.

3. Add One:
Add One is different from Match Code, add device via match code allows the NVR and IP Camera transmits wirelessly, while Add One only allows for wired connection between IP Camera and NVR. You need to connect the IP Camera to NVR using a network cable to view image if you use add one to add current IP Camera to the NVR.

Right click mouse in your system, choose “IPC Add” from the drop-down menu to enter Video Manage interface, click “Add One” to add current IP Camera.

4. Auto Add:
Auto Add is the same with Add One. You’ll need to connect IP Camera to NVR using a network cable to view image if you choose Auto Add.

Right click mouse in your system, choose “IPC Add” from the drop-down menu to enter Video Manage interface.

Connect IP Camera to your NVR using a network cable, click “Refresh” to get the IP Camera list that connected to the NVR, click “Auto Add”, system will add the working IP Cameras to available channel automatically, and your monitor will display the IP Camera’s video. Please DO NOT unplug the network cable between the NVR and IP Camera. You can also add four cameras once using auto add, if all 4 channels are available.

Tips:
- Auto Add allows the system to search all the IP Cameras in LAN, and supports auto assign IP addresses.
4.3.3 Delete Device

**Function Description:** Delete devices from the NVR

**Operation Steps:**
1. Right click mouse in your system, choose “IPC Add” from the drop-down menu to enter Video Manage interface.
2. Select any of the IP Cameras that’s already added to NVR and click “Delete Channel” to delete this IP Camera from NVR (As shown in Image 19). You will no longer see this camera’s footage on your display/monitor any more.

Tips:
Click “Delete All” button will delete all the IP Cameras that’s added to the NVR.

4.3.4 Edit Channel

**Function Description:** Edit channel information, including protocols, IP address, port number, user name, password, and stream type.

**Operation Steps:**
1. Right click mouse in your system, choose “IPC Add” from the drop-down menu to enter Video Manage interface.
2. Choose any of the IP Cameras and click “Edit Channel”, you should then see below Interface (Figure 20). You can set all the channel information here. Click “Copy to” to apply the settings to other channel or all channels and click “OK” to save your settings.
4.3.5 Stream Setting

**Function Description:** Set the IP Camera information, including stream, resolution, rate, frame rate, frame rate interval, H.264 coding grade, and etc.

**Operation Steps:**
1. Right click mouse in your system, choose “IPC Add” from the drop-down menu to enter Video Manage interface.
2. Choose any of the IP Cameras and click “Stream Setup”, you should then see below interface (Figure 21). You can set all the stream information here. Click “Apply” to save the settings and click “OK” to exit.

**Tips:**
1. For Stream, there are two options: Main Stream and Sub-stream. In good network conditions, you can choose Main Stream to obtain better image quality; while under relatively bad network conditions, we suggest you choose Sub-stream to ensure the smooth flow of video.
2. For Resolution, there are many choices, such as 720*576, 960*576, 1280*720, and more. The higher you set the resolution to, the better the image quality you will get.
4.4 Network Setting

4.4.1 Network Setup

**Declaration:** If the system is used for remote surveillance, you must set up the network to ensure it work properly.
Default IP address: 192.168.1.114

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” from the drop-down menu, click “Network setup”, you’ll see below interface, as shown in Image 22.

![Image 22](image22.png)

2. Configure Network Parameter: Go to “Network setup” to modify your device's IP address, subnet mask, gateway and etc., you can also check “DHCP” to automatically obtain IP address. Check “Device ID” to show the device ID, which is used for remote access.
3. Click “Apply” to save the settings, or click “OK” to save and exit.

**Detailed Feature List:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Function Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>Set the IP address of this device, you can choose to manually input the IP address</td>
<td>Unselect the DHCP to manually set your IP address</td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>Set the Subnet Mask</td>
<td></td>
</tr>
<tr>
<td>Gateway</td>
<td>Set the Gateway</td>
<td></td>
</tr>
<tr>
<td>MAC Address</td>
<td>Set the MAC Address</td>
<td>Avoid using same MAC Address in LAN</td>
</tr>
<tr>
<td>Web Port</td>
<td>Transmit video signal and other control signals, default is 80</td>
<td>Port 80 is used for web, PC client and Mobile</td>
</tr>
<tr>
<td>DHCP</td>
<td>Select DHCP to automatically obtain the IP address</td>
<td>When DHCP is selected, you cannot manually set the IP Address</td>
</tr>
</tbody>
</table>
4.4.2. DDNS

**Function Description:** If you don’t have a static IP, using DDNS (Dynamic DNS) to access your device via domain name can effectively solve the problem caused by dynamic IP.

Tips: this is only necessary when you are not satisfied with the Cloud DEVICE ID method. DDNS does not rely on Cloud streaming so it may give you a smoother remote connection.

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” - “Network setup” – “DDNS”, you’ll then see below interface, as shown in Image 23.

![Image 23]

2. Select “Enable” to enable DDNS.
3. Enter the Domain Name, Username and Password.
4. Click “Apply” to save the settings.

**Tips:**
- Currently supports domain providers: popdvr, 3322, changeip, no-ip, dyndns. Please apply for your own DDNS from these providers before you use it.
- Domain Name information cannot be edited if “Enable” is unchecked.

4.4.3 FTP

**Function Description:** Used for uploading motion detection videos and sending alarm

**Operation Steps:**
1. Right click mouse in your system, enter “System setup” – “Network setup” – “FTP”, you’ll then
see below interface, as shown in Image 24.

![Image 24](image)

2. Select “Enable” to enable FTP
3. Enter the FTP Server, Port, Username and Password.
4. Set “Schedule” and click “Test” to check if it is set successfully, if yes, click “Apply” to save the settings.

4.4.4 E-Mail

**Function Description:** Used for sending customers email alert when motion is detected.

**Operation Steps:**
1. Right click mouse in your system, enter “System setup” – “Network setup” – “E-Mail”, you’ll then see below interface, as shown in Figure 25.
2. Select “Enable” to enable the email function.
3. Enter the information of SMTP Server, Port, Username, Password, Sender, Sendee and etc.
4. Click “Test” to see if it is set successfully, if yes, click “Apply” to save settings.

**Detailed Feature List:**

<table>
<thead>
<tr>
<th>Function Name</th>
<th>Function Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMTP Server</td>
<td>Correct format is smtp.yahoo.com</td>
</tr>
<tr>
<td>User Name</td>
<td>Username of your email account</td>
</tr>
<tr>
<td>Password</td>
<td>Password of your email account</td>
</tr>
<tr>
<td>Encryption Type</td>
<td>Leave it blank in default, if failed on test, then change to SSL</td>
</tr>
<tr>
<td>Sender</td>
<td>Full email address of sender</td>
</tr>
<tr>
<td>Sendee</td>
<td>Full email address of receiver</td>
</tr>
<tr>
<td>Interval</td>
<td>The frequency of receiving email</td>
</tr>
<tr>
<td>Health Message Interval</td>
<td>The frequency of receiving email in normal running/operation</td>
</tr>
</tbody>
</table>

**Tips:**
- When setup the email, you need to enable it at alarm setting and motion detection setting.
- Health Message Interval only takes effect after you select “Enable”.
- If failed to set the email alert, please assure that you’ve enabled SMTP service for your email account.

**4.4.5 PPPoE**

**Function Description:** Supports access internet via dial-up
Operation Steps:
1. Right click mouse in your system, enter “System setup” – “Network setup” – “PPPoE”, you’ll then see below interface, as shown in Image 26.

![Image 26](image26.png)

Figure 26

2. Select “Enable”, enter the Username and Password provided by ISP.

Tips:
- **PPPoE Function:** for enable PPPoE, allowing access internet via dial-up; for disable PPPoE

4.4.6 3G

**Function description:** this is to enable users who don’t have Internet service to use USB data stick to connect the NVR to Internet.

**Operation Steps:**
1. Right click mouse in your system, enter “System setup” – “Network setup” – “3G”, you’ll then see below interface, as shown in Image 27.
1. Select “Enable” to enable 3G Module.
2. Enter the information of Dial-Number, APN, PIN, Username, Password, and etc.
3. Click “Apply” to save settings.

### 4.4.7 Wireless

**Function description:** This enables users to change settings of the NVR's Wi-Fi hotspot and password; and some other router related settings.

**ESSID:** the default Wi-Fi hotspot name of the NVR

**Password:** the default password of the Wi-Fi hotspot; generated automatically by the system.

Note: changing the hotspot name or the password will cause losing connection with cameras; please restore to factory settings if you lose camera connections; or follow 4.3.2 to add cameras to the NVR.
4.5 PTZ Control (xmartO WOS series do not support PTZ now)

4.5.1 PTZ Parameter Setting

Prerequisites:
Before trying to control the speed dome or PTZ, you need to make sure that the decoder of this PTZ has already connected to NVR, and also you need to set the parameters for the PTZ in NVR.

Operation Steps:
1. Right click mouse in your system, enter “System setup” – “Channel Setup” – “PTZ”, you’ll then see below interface, as shown in Figure 28.

![Image 28](image_url)

Operation Guide as below:

<table>
<thead>
<tr>
<th>Operation Target</th>
<th>Function Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Choose the channel you want to set PTZ</td>
</tr>
<tr>
<td>Protocol</td>
<td>Choose the correct protocol of this PTZ</td>
</tr>
<tr>
<td>Device Address</td>
<td>Enter the specified decoder address</td>
</tr>
<tr>
<td>Baud Rate</td>
<td>Choose the right baud rate to match with this PTZ’s baud rate</td>
</tr>
<tr>
<td>Copy to</td>
<td>Choose the channel you want to copy the settings and click “Copy to” to apply current channel’s settings to other channels</td>
</tr>
</tbody>
</table>

4.5.2 PTZ Control Operations

Operation Steps:
1. Double click the channel you want to set in main preview screen.
2. Right click mouse in that channel’s preview interface and choose the PTZ control, you’ll then see below image, as shown in Figure 29.
Operation Explanation:

- : Control the PTZ to rotate upward
- : Control the PTZ to rotate downward
- : Control the PTZ to rotate leftward
- : Control the PTZ to rotate rightward
- : Control the PTZ to rotate 360 degrees automatically
  +: Adjust Zoom+, Focus+, Iris+
  -: Adjust Zoom-, Focus-, Iris-

4.5.3 PTZ Auto Cruise Setup

Operation Steps:
1. Right click mouse in your system, choose “System setup” - “Channel Setup” - “PTZ Control”.
2. Click “?” at the right of “Preset” to enter the control interface to set presets.
3. Choose presets and set rotation direction.
4. Right click mouse to back to the setup interface, set the “Keep time”.
5. Click “Add” to finish setting this preset.
6. Repeat above 2-5 steps to add other presets.
7. Setup complete, check “Tour Start” to modify the rotation speed accordingly, as shown in Image 30.
8. Right click mouse to back to setup interface, click “Apply” to save settings.

Tips:
- Presets are the tour spots, the PTZ tour from small to large spots automatically.
- Keep time is the time length that the PTZ will stay at a preset.
- Speed is the rotation speed that the PTZ tour from one preset to another preset.

4.6 Recording

4.6.1 Manual Record

Function Description: Customers can turn on/off recording quickly under manual record mode.

Operation Steps:
1. Right click mouse in your system, choose “Manual record”.
2. Select the channels you want to record.
3. If you want all the channels to record, then click “Enable All”.
4. If you want to disable the manual record of all channels, click “Disable All”.
5. Click “OK” to finish the manual record setup. As shown in Image 31.

![Image 31](image31.png)

Tips:
- Recording Priority: Alarm Recording > Motion Detection Recording > Manual Recording > Time Scheduled Recording

4.6.2 Time-scheduled Recording

Function Description: Set time-scheduled recording, NVR will record in specified time period that set by user.

Operation Steps:
1. Right click mouse in your system, click “System setup”.
2. Click “Record setup”, then “Record Plan”, you’ll then see below interface, as shown in Image 32.
3. Choose the Channel and Weekday from drop-down menu.
4. Set the Schedule time, and check “Time”.
5. Click “Copy to” if you want to apply the settings to other channel or all channels.
6. Click “Apply” to save the settings.

Tips:
- You can set 4 time periods for time-scheduled recording, customers can set up according to their specific needs; if you want the NVR to recording 24 hours continuously, then you only need to set one time period, from 0:00am - 24:00pm, and keep the other periods blank.
- Different time period will show in different color, customers can easily double check to see whether the time settings meet their needs or not.

4.6.3 Motion Detection Recording

Function Description: Set Motion Detection Recording, NVR will record only when motion or movement is detected.

Operation Steps:
1. Right click mouse in your system, choose “System setup”.
2. Click “Record setup” and then “Record Plan”.
3. Set the Channel and Weekday from drop-down menu.
4. Check “Motion” box.
5. Set the motion area and sensitivity, detailed operation steps as below:
   1) Click “Video detection” on the left. As shown in Image 33.
   2) Select the channel you want to set as motion detection recording from the “Channel” drop-down menu and set “Sensitivity”.
   3) Choose “Motion” for “Detection” box.
4) Click “Apply” to save settings.

Tips:
- If you want to set motion detection recording for other channels, repeat above steps
- The default sensitivity is set to be “High”

![Image 33]

4.6.4 Alarm-triggered Recording

**Function Description:** Enable alarm-triggered recording, system will starts recording when any alarm input is detected.

**Operation Steps:**
1. Right click mouse in your system, and choose “System setup” - “Record Plan” - “Sensor setup”, you’ll then see below interface, as shown in Image 34.

![Figure 34]

2. Select the channel you want to set as Alarm-triggered Recording from “Channel” drop-down
menu, set work Mode is “Enable”.
3. Select the “Record channel”.
4. Please refer to “4.6.2 Time-scheduled Recording Setup” to set the Alarm-triggered Recording; make sure to check the “Alarm” box.
5. Click “OK” to save the settings.

Tips:
● Repeat above steps to set other channels to be Alarm-triggered Recording.
● If other channels’ Alarm-triggered Recording settings are the same to this channel, click “Copy to” to apply current channel’s settings to other channel or all channels.

4.7 Video Playback

4.7.1 Quick Playback

Function Description: Enable fast playback, customers can quickly retrieval recent video data.

Operation Steps:
1. Right click mouse in your system and choose “Video playback”
2. Select the playback time from drop-down menu, users can select 5 minutes, 10 minutes, 30 minutes based on their needs. User can choose any channel to playback. As shown in Image 35.

Tips:
● Before you playback, please make sure that you’ve installed a hard drive in the NVR, and you’ve enabled the recording.

4.7.2 Regular Playback

Function Description: Enable normal playback, customers can search for videos based on recording type and time.
Operation Steps:
1. Right click mouse in your system, choose “Video playback”
2. Choose “Manual Search” from sub-menu to enter “Video playback” interface, as shown is Image 36.

![Image 36](image36.png)

1. Select the Channel and Record mode.
2. Set the “Search time” and click “Search”.
3. Wait for about 30 seconds and you will see a video list based on your search conditions, choose the one you want to playback.
4. Click “Video playback” to playback the video. Playback progress bar interface is shown as Image 37.

![Image 37](image37.png)

Video Playback Operation Steps

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hold</td>
</tr>
<tr>
<td></td>
<td>Stop</td>
</tr>
<tr>
<td></td>
<td>Fast Forward</td>
</tr>
<tr>
<td></td>
<td>Last Frame</td>
</tr>
<tr>
<td></td>
<td>Next Frame</td>
</tr>
</tbody>
</table>

Tips:
- Playback can be controlled through the playback progress bar.
- Supports 2x/ 4x/ 8x/ 16x/ 32x-speed playback.

4.8 Video Backup

Function Description: You can back up the video stored in your hard drive to your USB flash drive.

Operation Steps:
1. Insert the USB flash disk to any of the NVR’s USB port.
2. Right click mouse in your system, choose “Video backup” to enter the video backup interface, as shown in Image 38.

3. Select the Channel and Record mode.
4. Set the “Search time” and click “Search”.
5. Wait for about 30 seconds and you’ll see a video list based on your search conditions.
6. Choose the videos you want to backup and click “Video backup”, as shown in Image 39.

**Tips:**
- In video search results list, customers can see the start time, end time, video length and storage size of the video.
- To assure you successfully backup the videos, please make sure that your USB flash disk have enough storage space.
4.9 Alarm

4.9.1 Motion Detection Alarm

**Function Description:** When system detects motion detection in the selected area, it will trigger alarm and output alarm.

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” to enter the system setup interface.
2. Choose “Record setup” and click “Video detection”, you’ll enter motion detection alarm setup interface, as shown in Image.

![Image](image_url)

**Figure 40**

3. Set the Sensitivity of motion detection.
4. Detection is set to be “Motion”, choose the Alarm duration time and select the alarm type.
5. Set the stream type, detailed operation steps as below:
   1) Choose “System setup” - “Channel Setup” - “Video Manage” - “Edit Channel”.
   2) Choose “Video Alarm” in the drop-down menu of stream type.
   3) Click “Save” to save settings.
6. Click “Apply” to save settings.
7. Area edit allows users to exclude certain areas such as a frequently moving tree.

**Tips:**
- There are five grades of sensitivity: Highest, Higher, Moderate, Lower, Lowest. The higher the sensitivity, the easier the moving object be detected.
- There are four ways of motion detection output type: Alarm, Buzzer, E-Mail, FTP Upload.
- If you choose Alarm as motion detection type, then you’ll need to go to “Record Setup” - “Alarm Setup” to set the operation mode as “Normally Open”.

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If you set certain areas to be excluded from the detect areas and you still get alarm (such as buzzer), it could be triggered by other channels. (channel 2, channel 3, channel 4...)

4.9.2 Video Loss Alarm

**Function Description:** If any channel lost video, users get alarms. (ex. buzzer)

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” to enter system setup interface.
2. Choose “Record setup” - “Video detection”.
3. Choose “Video Loss” from the Detection drop-down box, as shown in Image 41.

![Image 41](image)

4. Set the Alarm duration time and select motion detection output type.
5. Click “Apply” to save settings.

**Tips:**
- Click “Copy to” to copy settings for current channel to other channel or all channels.

4.10 General setup

4.10.1 General setup

**Function Description:** Basic settings and parameters.

**Operation Steps:**
1. Right click the mouse in your system; choose “System setup” to enter the system setup interface.
2. Choose “General setup” - “General setup”, as shown in Image 42.
**Detailed Operation Explanations:**

<table>
<thead>
<tr>
<th>Operation Object</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Log out</td>
<td>Choose whether the system log out automatically without operation</td>
</tr>
<tr>
<td>Keyboard Sound</td>
<td>Choose whether to turn on the sound of pressing on keyboard</td>
</tr>
<tr>
<td>Language</td>
<td>Choose different language accordingly</td>
</tr>
<tr>
<td>Remote Control</td>
<td>Choose whether to use remote control</td>
</tr>
<tr>
<td>Boot Wizard</td>
<td>Choose whether to show boot wizard when start up</td>
</tr>
<tr>
<td>Display Device ID when Live View</td>
<td>Choose whether to show the system status and Device ID number</td>
</tr>
</tbody>
</table>

**4.10.2 Time Setup**

**Function Description:** Set zone, date and time for the system.

**Operation Steps:** Right click mouse in the system, choose “System setup” – “General setup” – “Time Setup”, you’ll see below interface, as shown in Image 43.
4.10.3 Screen setup

**Function Description:** Set the screen parameters.

**Operation Steps:** Right click mouse in your system, choose “System setup” – “General setup” – “Screen setup”, you’ll see below interface, as shown in Image 44.

<table>
<thead>
<tr>
<th>Operation Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Choose the Channel you want to set</td>
</tr>
</tbody>
</table>
### Camera Title
- **Modify the Camera Title**

### Color adjust
- Set the color tone, brightness, saturation, and contrast

### OSD Alpha
- **Modify the OSD Alpha**

### VGA resolution
- Select the correct screen resolution

### Auto Switch
- Whether to enable auto switch and set the switch time

**Tips:**
- Skip video loss means if the screen does not show image of any channel, this channel will not be displayed at auto switch.
- Choose 1 or 4 to set how many channels be displayed at a time at auto switch, 1 means display only one channel at a time, while 4 means display 4 channels at a time.
- VGA resolution should match your screen resolution. If your NVR outputs different resolution that your screen takes, you may not get display on the screen. Please connect the NVR to a high resolution screen and set it to correct resolution and then connect back to your primary screen.

---

### 4.10.4 Hard drive Settings

**Function Description:** Allows you to format your hard drive.

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” to enter system setup interface.
2. Choose “General setup” – “HDD Setup”, you’ll see below interface, as shown in Image 45.

![Image 45](image.png)

3. Check installed hard drive information here, including Model, Capacity, Used, Status, and Format.
4. Check “Overwrite” to enable auto overwrite.
5. Click the hard drive to format it if needed.
6. Select “Customize” in drop-down menu and set the days (auto delete files of how many days before) if you want to auto delete old files.
7. Click “Apply” to save the settings.

Tips:
- Enable auto overwrite means hard drive will automatically overwrite earliest video files when it is full.
- When click “Formatting”, system will pop up a dialog box, reading “All data files will be deleted after formatting, click OK to confirm”, click “OK” to start formatting.
- Auto delete old files: Select “Customize” and set the days (auto delete files of how many days before) with a digital keyboard, you can set up to 255 days. Select “OFF” to disable this function.

4.11 Device maintenance and management

4.11.1 System information

System version
Function Description: User can check device’s information, including Device name, Device model, Device SN, H/W version, S/W version, and Built time.

Operation Steps:
Right click mouse in your system, choose “System setup” – “System Admin” – “System version”, you’ll see the below interface, as shown in Figure 46.

![Figure 46](image)

Tips:
- System version is very important for our future maintenance; customers might be required to provide the device’s version information when maintenance is needed.
HDD Information

**Function Description:** User can check the installed hard drive’s information here, including Model, Capacity, Used and Status.

**Operation Steps:**
Right click mouse in your system, choose “System setup” – “System Admin” – “HDD Information”, you’ll see below interface, as shown in Image 47.

![Image 47](image)

System log

**Function Description:** Customer can search and check the log records by Event type, From time and Till time, interface as shown in Image 48.

![Image 48](image)

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” – “System Admin” – “System log”.

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2. Select the Event type from drop-down box.
3. Set the From time and Till time, click “Search”, you’ll see the log information displayed there.

**Tips:**
- Click left and right arrow to read previous and next page’s log information
- Log information are saved in the hard drive, formatting hard drive will delete all log information
- Time type can be set as: system starting up, system shutdown, system configuration change, record, alarm and more.

4.11.2 User management

**Tips:**
- The default user name is admin; password in none (means no password).
- Administrator can add, delete and edit users and their permissions.

![Add user](image)

**Add user**

**Operation Steps:**
1. Right click mouse in your system, choose “System setup” - “System Admin” - “User management”.
2. Click “Add user” to enter the add user interface. As shown in Image 50.
3. Input the new user’s Username and Password.
4. Select the permissions you’d like to apply to this user. Administrator has all permissions in default.
5. Click “OK” to save settings, you can see newly added user in the user list.

**Permission Description:**
Video playback: Able to search and playback videos stored in the hard drive
Video backup: Able to back up the videos stored in the hard drive via USB flash disk
PTZ control: Control the PTZ movement and cruise
Volume: Control the audio output volume
Manual record: Enable manual record anytime
System setup: Including normal setting, record setting, network setting, channel setting and system management
Split Screen: Auto switch of single view and quad-view
Color Adjust: Adjust the image brightness, color tone, saturation and contrast
Setup Wizard: Guide the user to make basic settings at starting up.
IPC Add: Search, add and delete devices
Remote configuration: Configure device’s parameters when remote access
Remote playback: Remote playback the recorded videos

**Delete user**
**Operation Steps:**
1. Right click mouse in your system, choose “System setup” – “System Admin” – “User management”.
2. Select any of the users to delete it, as shown in Image 51.
3. Click “OK” to confirm delete users, then you’ll see this user is no longer exist in the list, as shown in Image 52.

Tips:
- Administrator cannot be deleted.

Edit user
Operation Steps:
1. Right click mouse in your system, choose “System setup” — “System Admin” — “User management”
2. Select any of the users, click “Edit” to enter the edit user interface, as shown in Image 53.

3. Re-edit this user’s permission.
4. Click “OK” to save the settings.
Tips:
- Administrator cannot be edited.

Change password

Operation Steps:
1. Right click mouse in your system, choose “System setup” – “System Admin” – “User management”.
2. Select any of the users, click “Change password” to enter the change password interface, as shown in Figure 54.

![Figure 54]

3. Enter your old password and set your new password.
4. Click “OK” to save the settings.

Tips:
- Administrator’s password is none in default (means empty).
- Common users can only change their own password; they cannot create, delete and edit users.

4.11.3 Restore factory settings

Operation Steps:
1. Right click mouse in your system, choose “System setup” – “System Admin” – “Factory setting” to enter below interface, as shown in Image 55.
2. Check the options you want to restore factory defaults, click “Apply”.
3. Click “OK” when confirmation message pops out.

4.11.4 System maintenance

**Function Description:** NVR maintenance is used for firmware upgrade for users.

**Operation Steps:**
1. Copy the firmware ROM file to an USB flash disk’s root directory; connect the USB disk to NVR’s USB port.
2. Right click mouse in your system, choose “System setup” – “System Admin” – “NVR maintenance” to enter below interface, as shown in Image 56.

3. Check the option boxes to restart system automatically according to needs.
4. Select the software upgrade type from drop-down, click “Start” and “Yes” when prompt box pops out.
5. You can see the system upgrade progress in the progress bar, waiting for the system to finish upgrading and it will restart automatically when finish.

Tips:
- Make sure that the upgrade file is put in the root category of your USB flash disk
- There are three types of software upgrade, including system, startup logo and resources.
- DO NOT unplug the system from power, or else system will be damaged

5 Access system from webpage

5.1 Brief Introduction

The NVR is embedded with WEB server and supports remote access through WEB. Connect the NVR to your router, enter the device’s IP address in the browsers to remote access your system.

Tips:
- Supports multiple browsers, including IE, Chrome, Firefox and more.

5.2 Access from LAN

5.2.1 Log in

Operation Steps:
1. Open your browser
2. Enter the NVR’s IP address in your browser in format http://your NVR ip address, for example: http://192.1.1.28 to enter the login interface, as shown in Image 59.

![Image 59](image59.png)

1. Enter the correct username and password.
2. Click “Login” to enter live view interface, as shown in Image 60.
6. If for first time use, please download and run the WebClient.exe control according to the prompt message, as shown in Image 61.

7. Login again to live view your system, as shown in Image 62.

Tips:
• IP address can be found in “System Setup” – “Network Setup”
• Supports multiple users to view simultaneously from different PC
• If the WEB port has been changed (default port is 80), then you’ll need to add port number when input IP address in the browser, for example: http://192.168.1.28:102 (port is 102)
• If it’s the first time of using and software cannot load automatically, you’ll need to do ActiveX settings:
  Click “Tools” – “Internet Options” – “Security” – “Custom Level”, enable ActiveX control and plugins following Image 63, and click “OK”.

For IE9 users only: For 1st option, Allow ActiveX filtering, select Disable
For all users: scroll furthermore and change below value to “Prompt”:

Download signed ActiveX controls;
Download unsigned ActiveX controls;
Initialize and script ActiveX controls not marked as safe for scripting.

5.2.2 Live View

When successfully log in, you’ll see live view interface in default. See Figure64.
5.2.3 Playback

Operation Steps:

1. Click “Playback” button in live view interface.
2. Enter playback interface, as shown below:

   ![Playback Interface]

   - Set the search time, type and channel, click “Search”
   - Choose the playback channel to playback recorded videos.

Tips:
- Common user needs permission to remote playback. Go to “System Setup” – “System Management” – “User Management” – “Edit User” to check and set the remote playback
5.2.4 Configure

Operation Steps:

1. Click “Configure” button in live view interface
2. Enter the configure interface, as shown in Image 65.

Tips:
- The details of configure, please refer to system function introduction
- Common user needs permission to remote configures. Go to “System Setup” – “System Management” – “User Management” – “Edit User” to check and set the remote configures permission for this user.

5.3 Access from remote PC

5.3.1 Login e-seenet with device ID

Operation Steps:
1. Open your browser
2. Enter http://www.e-seenet.com, as shown in Image 66
3. Enter the correct device ID, user name and password.
4. Click login to enter live view interface, as shown in Image 67.

Tips:
- Get the device ID by go to “System Setup” - “Network Setting” and check Eseenet(P2P), device will then be displayed
- To successfully remote access your system, the device ID should be ONLINE.
- If this Cloud P2P connection is not smooth in your network, please refer to 4.4.2 to use DDNS method to get smoother connection.
5.3.2 Log in with User ID

Function Description: Log in with user name can solve the limitation of managing only one device by log in with device ID

**Operation Steps:**
1. Open your browser.
2. Enter [http://www.e-seenet.com](http://www.e-seenet.com), choose “Log in with Username”, as shown in Image 68.

![Image 68](image)

3. User can follow the prompt message to create an account when first login

**Tips:**
- Supports Chinese and English two languages

6. Access from smartphone

**Operation Steps:**
1. Software download
   - Search and download App “ESEENET+” from Apple App Store or Google Play.
2. Add Device
   1) Open your mobile app and click “+” to add device
   2) Input the system’s connection information, as shown in Image 69

   ![Image 69](image-url)

   3) OK and go back to device list, click the device name to view live video, as shown in Image 70.
3. Remote Playback
7. Appendix

7.1 Hard Drive Capacity Unit Conversion

<table>
<thead>
<tr>
<th>Device Capacity Unit Conversion</th>
<th>Operation System Capacity Unit Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 1 B = 8 b</td>
<td>B 1 B = 8 b</td>
</tr>
<tr>
<td>MB 1 MB = 1000 KB</td>
<td>MB 1 MB = 1024 KB</td>
</tr>
<tr>
<td>GB 1 GB = 1000 MB</td>
<td>GB 1 GB = 1024 MB</td>
</tr>
<tr>
<td>TB 1 TB = 1000 GB</td>
<td>TB 1 TB = 1024 GB</td>
</tr>
</tbody>
</table>

Tips:
Device capacity unit conversion is the same with hard drive suppliers; adopt 1GB = 1000MB

7.2 Recording Capacity Calculation

1. Video file size for a single channel: 
   \[ A = \frac{B}{8} \times 1000 \times 3600 \]
2. Video file size of multi-channel 24 hours’ recording: 
   \[ A = \frac{B}{8} \times 1000 \times 3600 \times 24 \times N \]
3. Video file size of multi-channel multi-days’ recording: 
   \[ A = \frac{B}{8} \times 1000 \times 3600 \times 24 \times D \times N \]

Tips:
- A represents the hard drive capacity, B represents size of code rate, N represents number of recording channels, D represents recording days