

Linux AI IP PVM with Smart AD Brief Manual

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1. Introduction of Linux AI IP PVM with Smart AD

Different from Market IP PVM:

- ①. One IP Solution Manage No-latency IP Video & Multimedia Play Together;
- ②. 3 Working Modes Settable via Web or CMS: Full Screen IP/Full Screen AD/Half Screen AD&IP;
- ③. Video Digital Pan Technology (PBP)
- ④. Multimedia Files Bulk Upload & Deploy via IPC Web, or via CMS to Unlimited PVMs in one Shot;
- ⑤. Logo/Deterrence Message/Audio Bulk Upload & Deploy via IPC Web or CMS(PIP)
- ⑥. IPC Config Files Export & Import, Save Installation Time;
- ⑦. Wi-Fi & RJ45 Connection;
- ⑧. Emergency Alarm on All Linked PVMs, PVMs Switch to Play Emergency Picture/Video;
- ⑨. Time Switch Schedule Freely Settable via IPC Web or CMS, CCTV Monitoring Non-Stop;
- ⑩. Built-in Max 1TB TF Slot for Remote Recording.

Conclusion:

Linux AI IP PVM with Smart AD can be regarded a special IP Camera that has multimedia function, we open more customizable functions to users for their various application demands.

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2. Interfaces of Linux AI IP PVM with Smart AD

Full Screen IP Video



Full Screen AD



9:16 IP Video & AD



The PVM will have below external interfaces:

- ①. POE&RJ45
- ②. USB Type-C
- ③. DC Power Input
- ④. PIR Detection Out
- ⑤. Alarm Out
- ⑥. Alarm In
- ⑦. Motion Out
- ⑧. Face Out
- ⑨. Emergency Alert
- ⑩. NC/COM/NO/GND (Relay)

Please note:

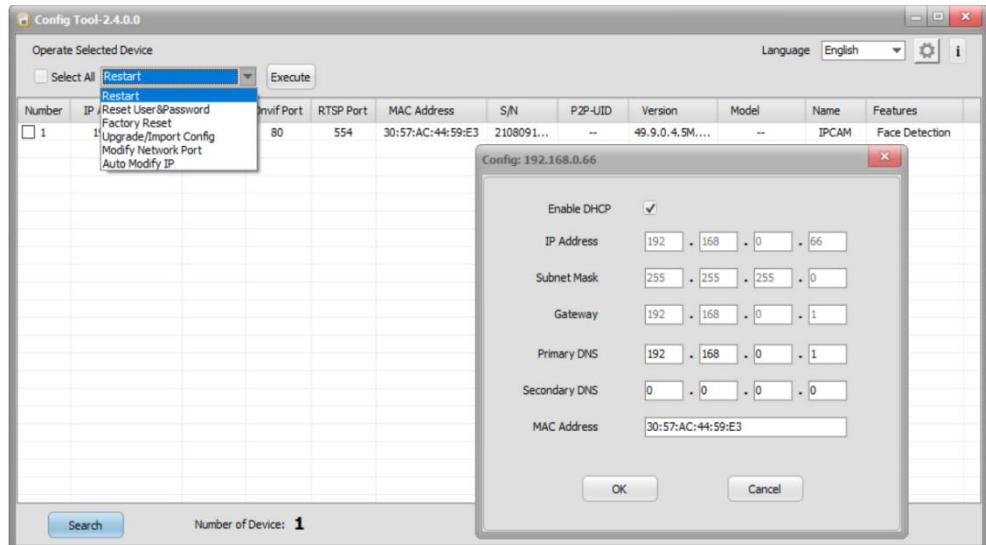
We remain USB interface for possible future customized demands.

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3. IP Tool for Linux AI IP PVM with Smart AD

3.1 IP Tool Installation

Customers can use our IP Config Tool to search/modify/factory reset/FW upgrading, etc



3.2 IPC Default Information

Default address: 192.168.0.66 (DHCP default enabled)

Default username and PW: admin (PW is required to modify when you log in Web at the first time)

Please note:

- ①. Ensure your PC & PVM are in same network segment, so you can enter into the IPC web without issue;
- ②. Use **Non-IE** browsers to login IPC Web, we prefer to suggest Chrome.

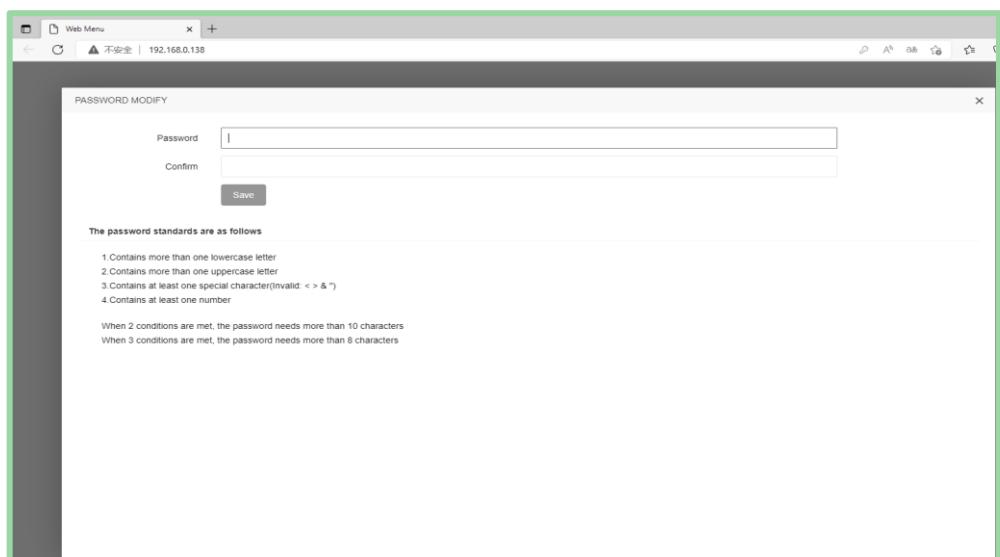
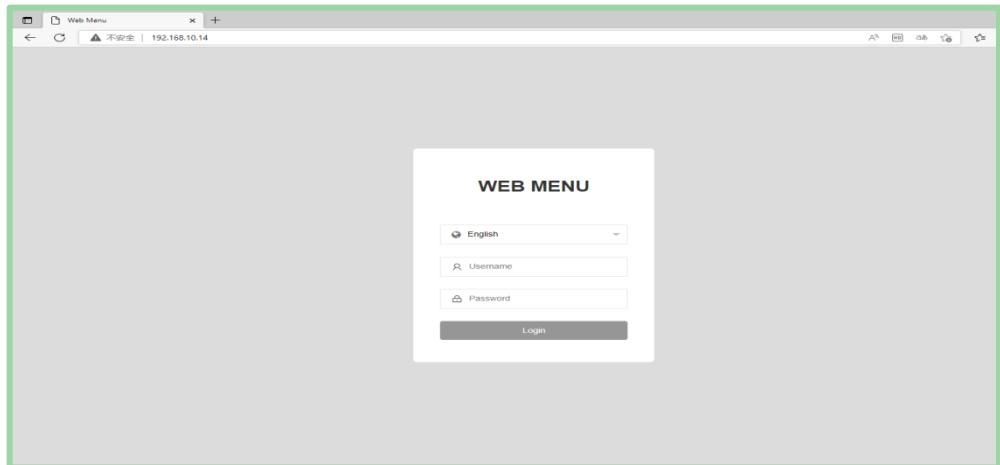
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4. Built-in NDAA Compliant IP Camera Operation Guiding

4.1 Web Login

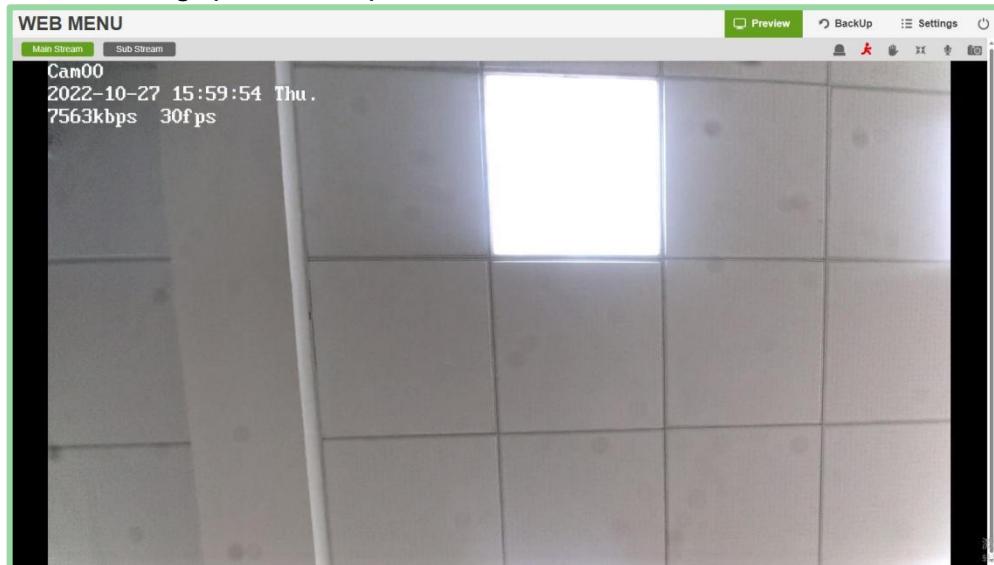
Please type in correct IP address of your PVM on browser, and:

- ①. Type in default PW “admin”;
- ②. Enter into PW change page and change your PW (PW is forced to change to ensure safety).



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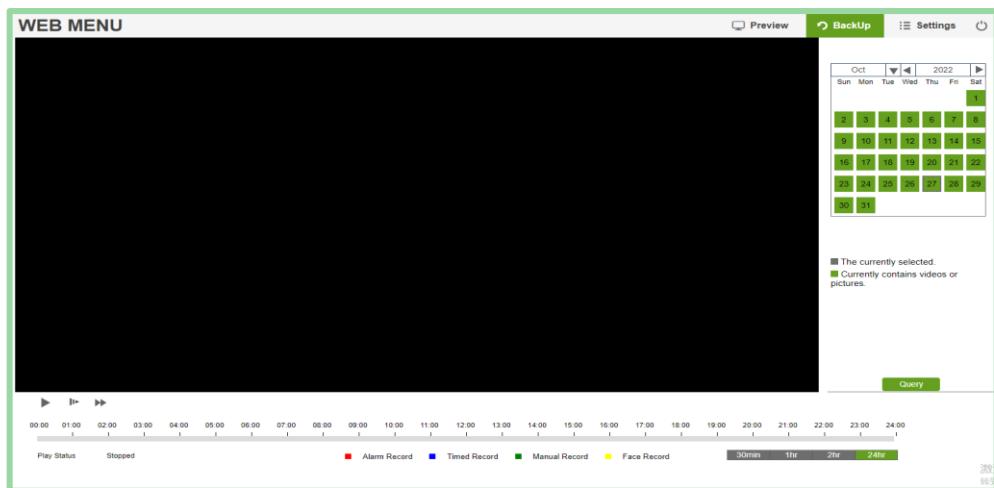
4.2 Preview Page (Main Stream)



4.3 Backup

Record Files: Alarm/Timed/Manual/Face Detection

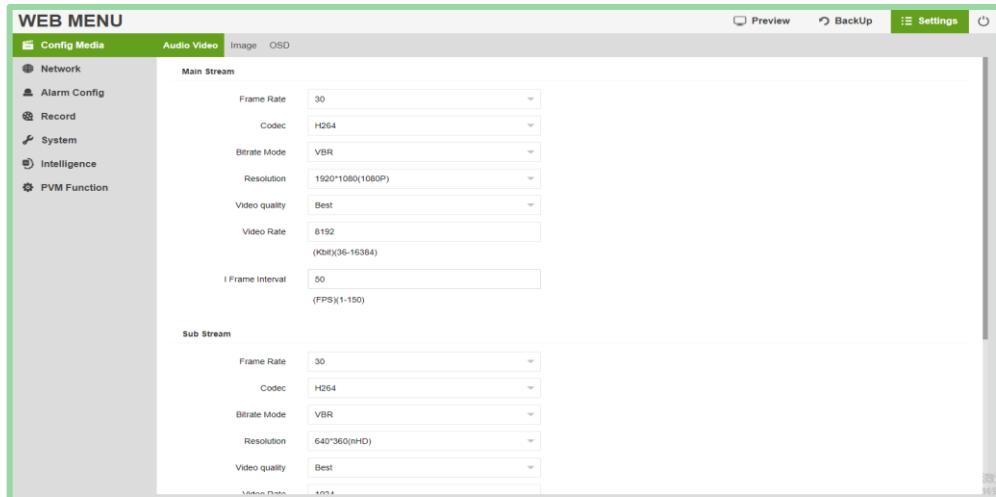
Download Format: IVD/MP4/JPG



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4.4 Settings

Including: Config Media/Network/Alarm Config/Record/System/Intelligence/PVM Function



The screenshot shows the 'WEB MENU' interface with the 'Config Media' tab selected. The 'Main Stream' section contains the following settings:

- Frame Rate: 30
- Codec: H264
- Bitrate Mode: VBR
- Resolution: 1920*1080(1080P)
- Video quality: Best
- Video Rate: 8192 (KB/s)(36-16384)
- I Frame Interval: 50 (FPS)(1-150)

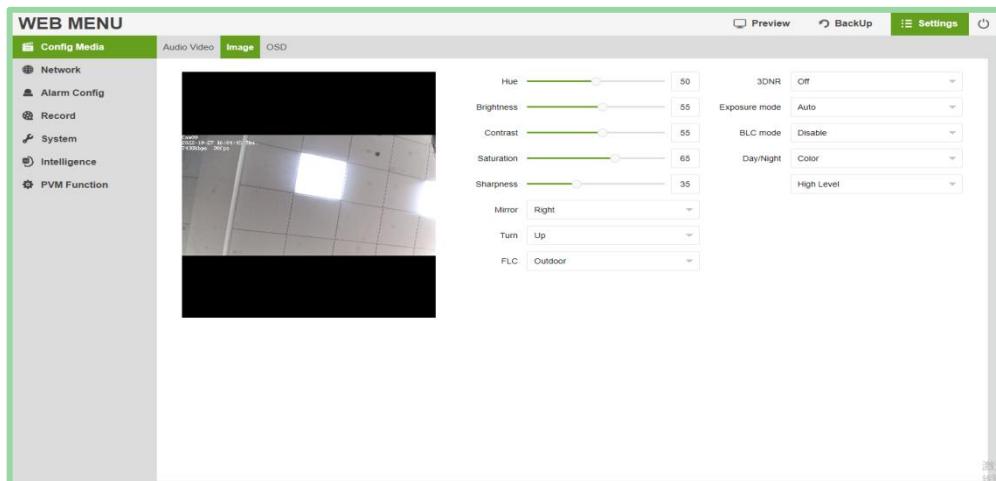
The 'Sub Stream' section contains the following settings:

- Frame Rate: 30
- Codec: H264
- Bitrate Mode: VBR
- Resolution: 640*360(eHD)
- Video quality: Best
- Video Rate: 1024

4.4.1 Config Media

Please note:

- ①. Audio Codec: Support G771U/G771A (This is for PVM Audio)
- ②. Output level: 0-9 levels (This is for PVM Audio Volume Adjustment)



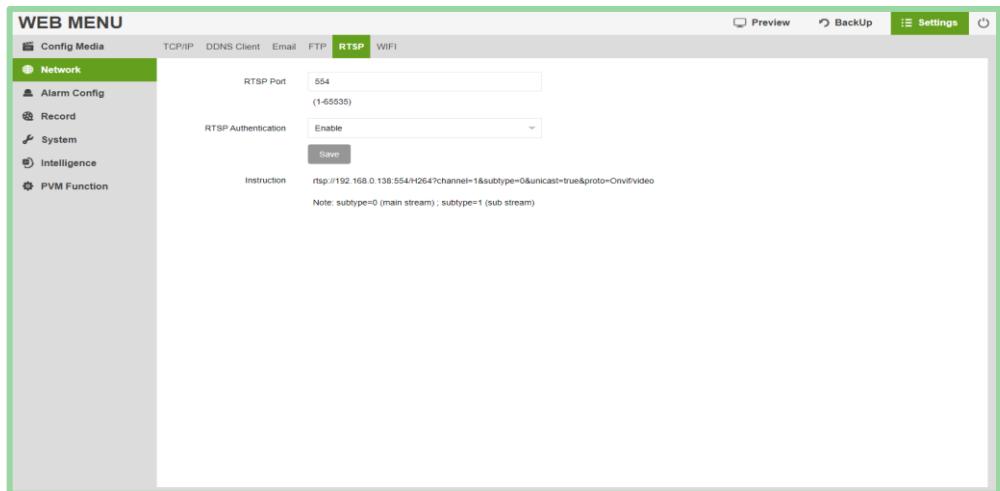
The screenshot shows the 'WEB MENU' interface with the 'Image' tab selected. On the left, there is a live video feed showing a ceiling with a light fixture. On the right, there are various image adjustment settings:

- Hue: 50
- 3DNR: Off
- Brightness: 55
- Exposure mode: Auto
- Contrast: 55
- BLC mode: Disable
- Saturation: 65
- Day/Night: Color
- Sharpness: 35
- High Level
- Mirror: Right
- Turn: Up
- FLC: Outdoor

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4.4.2 Network

Including: TCP/IP, DDNS Client, Email, FTP, UPNP, RTSP and WIFI.

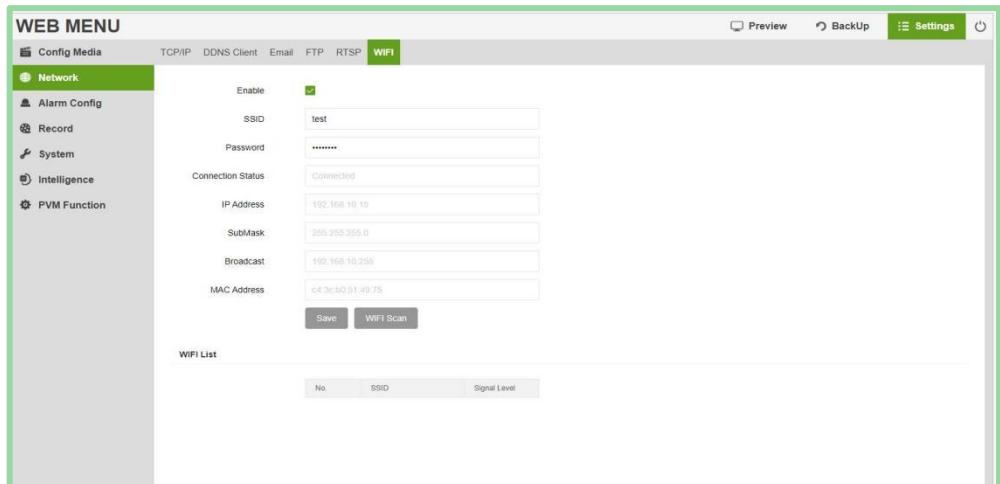


Please note:

①. HTTP Port: 80 ②. Onvif Port: 80 ③. RTSP Port: 554, and instruction is below:

rtsp://192.168.0.66:554/H264?channel=1&subtype=0&unicast=true&proto=Onvif/video

Note: subtype=0 (main stream) ; subtype=1 (sub stream)



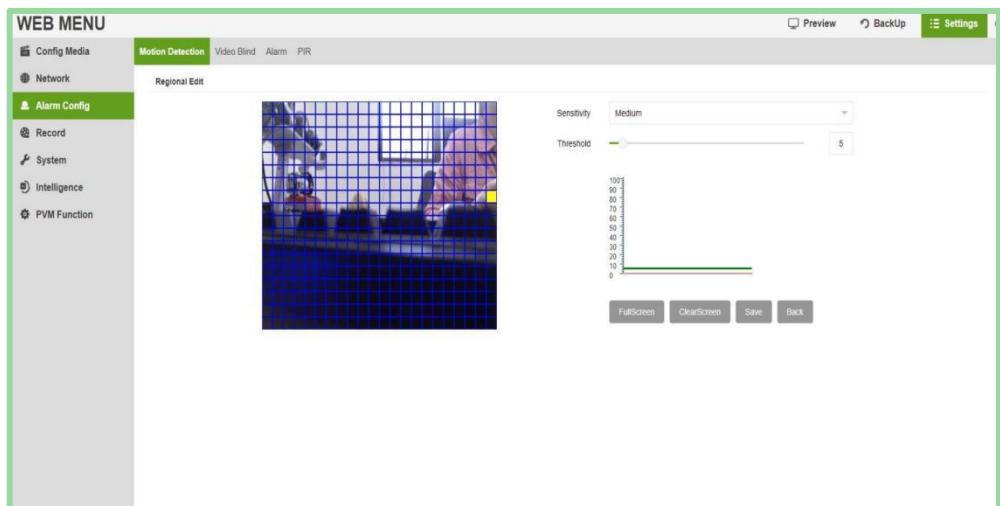
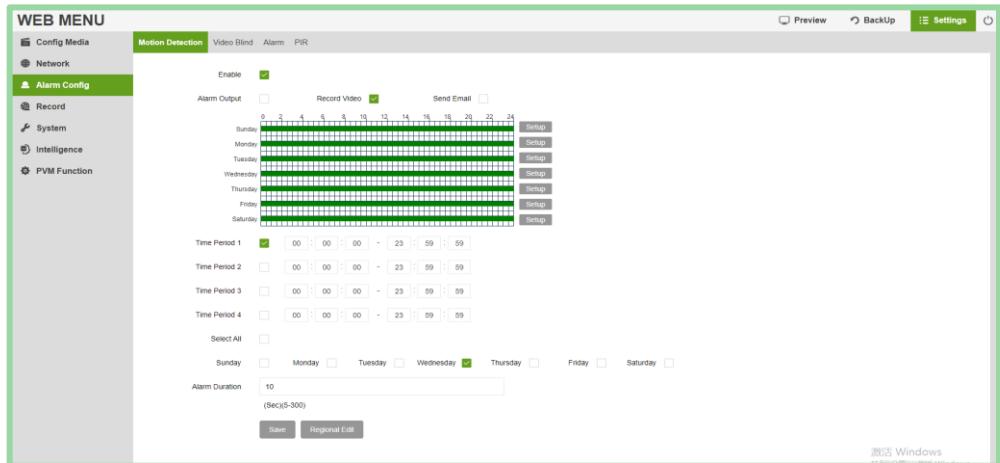
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4.4.3 Alarm Config

Including: Motion Detection/Video Blind/Alarm/PIR

Please note:

- ①. Motion detection is default “Enable” and also enabled “Record Video”;
- ②. PIR is default “Enable” and alarm time is 10s setting.
- ③. To set motion detection region/sensitivity/threshold, please enter “Regional Edit”.



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4.4.4 Record

Including: Schedule/SD Storage/Snapshot/Destination/NAS//System Log

Please note:

- ①. Ensure your PVM is powered off before you insert TF card for remote recording;
- ②. After power up, please format your TF card;

WEB MENU

Schedule SD Storage Snapshot Destination NAS System Log Preview BackUp Settings

Record

Enable

Sunday	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Monday																									Setup
Tuesday																									Setup
Wednesday																									Setup
Thursday																									Setup
Friday																									Setup
Saturday																									Setup

Time Period 1 00 : 00 : 00 - 23 : 59 : 59

Time Period 2 00 : 00 : 00 - 23 : 59 : 59

Time Period 3 00 : 00 : 00 - 23 : 59 : 59

Time Period 4 00 : 00 : 00 - 23 : 59 : 59

Select All

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Save

WEB MENU

Schedule SD Storage Snapshot Destination NAS System Log Preview BackUp Settings

Record

Total Space 0(M)

Used Space 0(M)

Available Space 0(M)

Refresh Format

Overwrite On

StreamType Main Stream

Record Mode Fixed Size

Record Type mp4

Save

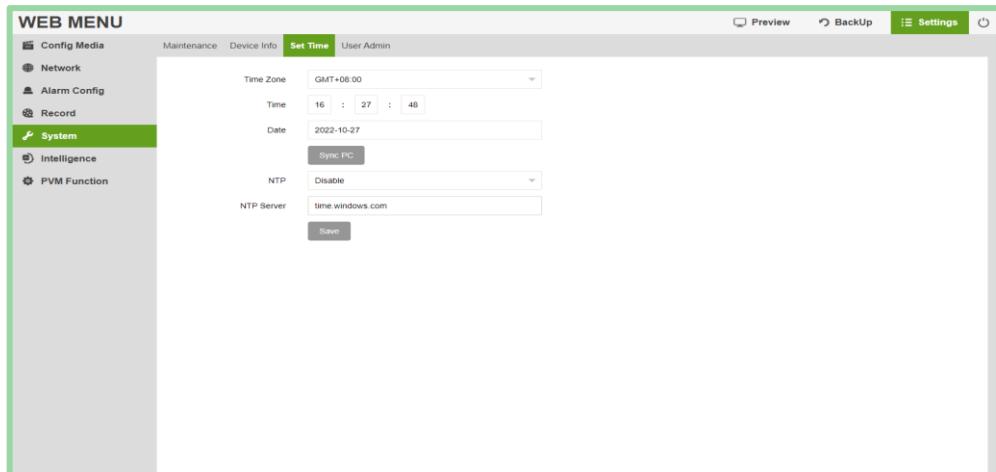
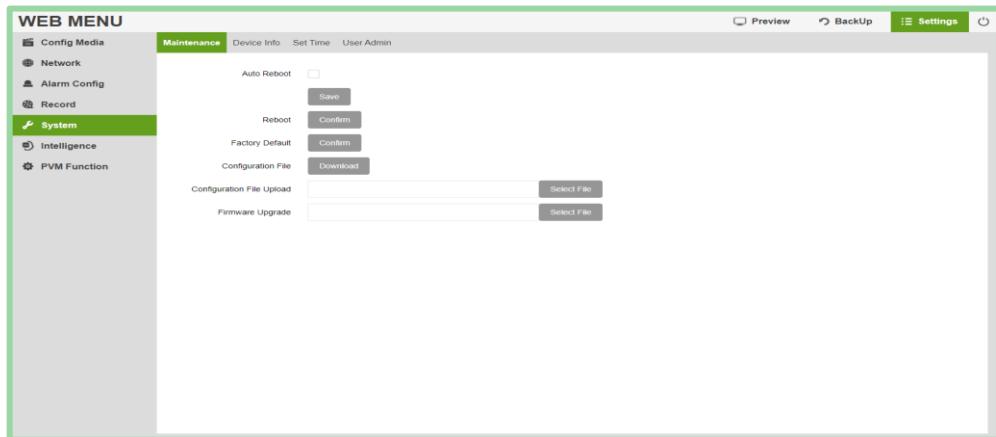
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4.4.5 System

Including: Maintenance/Device Info/Set Time/User Admin

Please note:

- ①. You can do factory default for your PVM on this page, after default, please use our IP tool to search and find out new IP address and login;
- ②. You can do FW upgrading on this Web page too;
- ③. Time zone, our default is GMT+08:00.



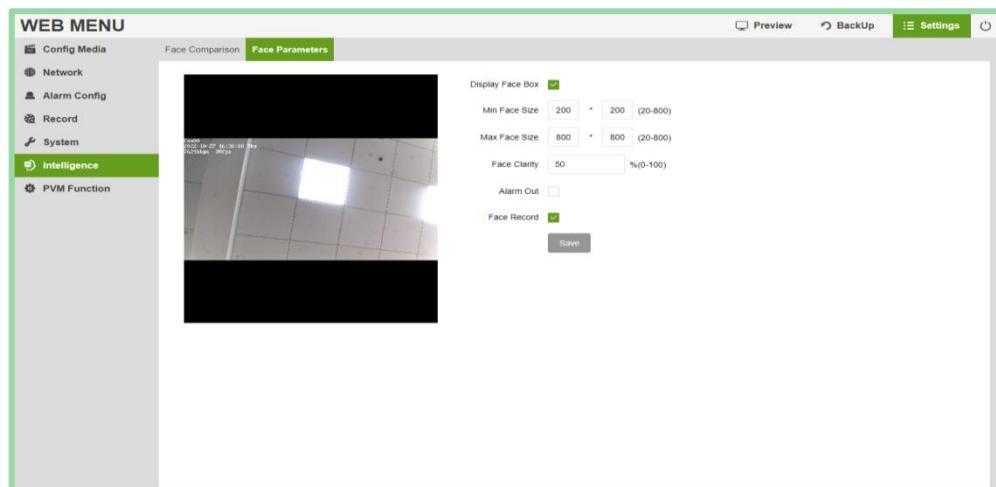
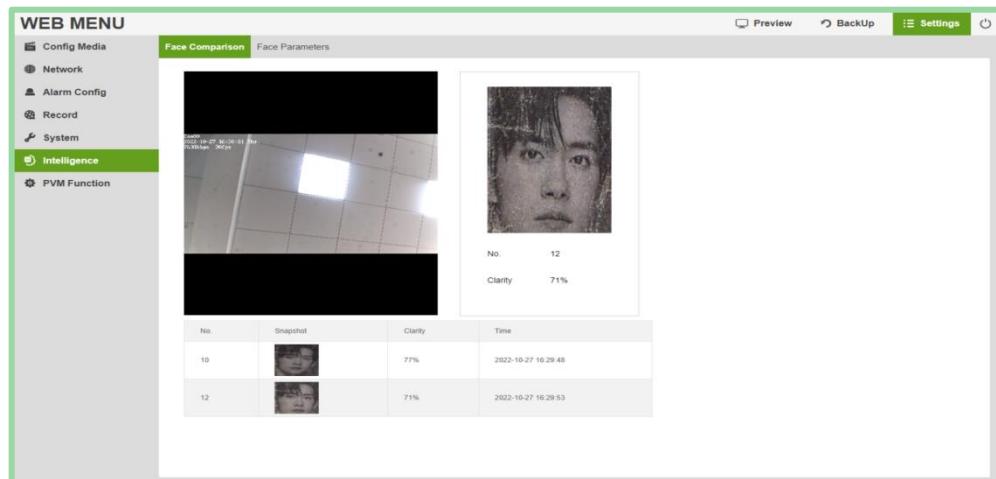
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4.4.6 Intelligence

Our AI function is face detection. This category includes Face Comparison & Face Parameters.

Please note:

- ①. We have face detection alarm out interface, so when face alarm output is needed in application, you can enable “Alarm output”;
- ②. If you want to use face detection to reduce “deterrence message” false pop-up, you can also set face sizes and clarity.



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4.4.7 PVM Functions

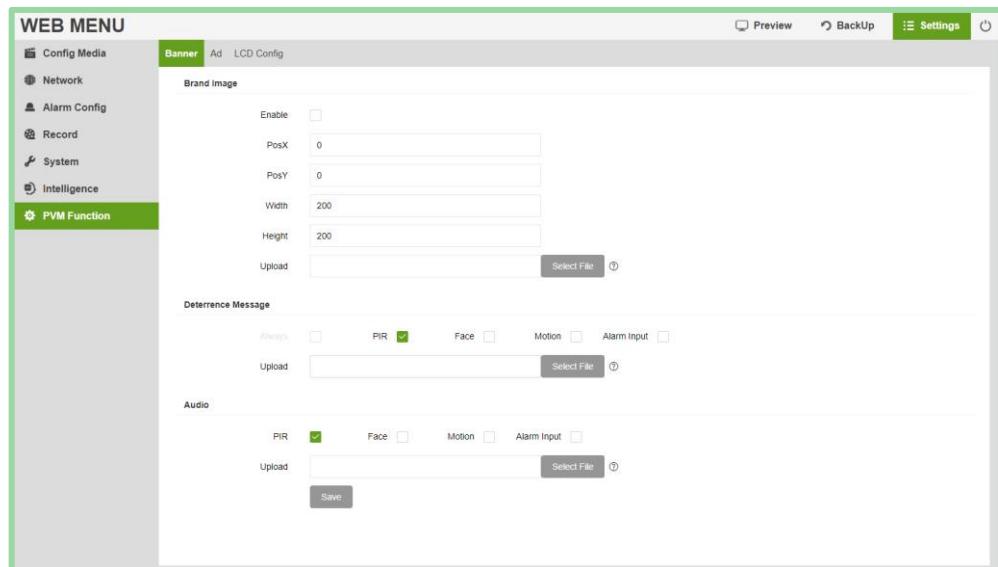
Including: Banner/Ad/LCD Config. This category is highly related with Smart AD function.

Banner:

Including Brand Image/Deterrence Message/Audio 3 functions.

Please note:

- ①. You can upload your logo and show on PVM;
- ②. You can define the logo's position and size on the PVM;
- ③. Logo picture format is **PNG**;
- ④. Deterrence Message can be triggered by PIR/Face/Motion/Alarm Input;
- ⑤. Deterrence Message(picture) format is **PNG**;
- ⑥. Audio volume can be set via “Config Media—Audio Video—Output Level”;
- ⑦. Brand Image is default “Disable”, but Alert Sign is default “Enable” and triggered by PIR.



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Ad Function:

Including Screen Mode and Play List 2 functions.

Screen Mode: Full Screen/Banner

Full Screen: Full Screen IP video or Full Screen AD; If you choose Full Screen, but do not upload AD files in this page, then the PVM will show full screen no-latency IP video; If you upload AD files in this page, then PVM will show full screen AD.

Banner: 9:16 IP video & AD (Remaining Area)

Now, the default is left side IP video, right side AD play.

Please note:

①. The Multimedia Format Supports:

Image: JPG/PNG/BMP/GIF

Video: MP4/MKV/MOV;

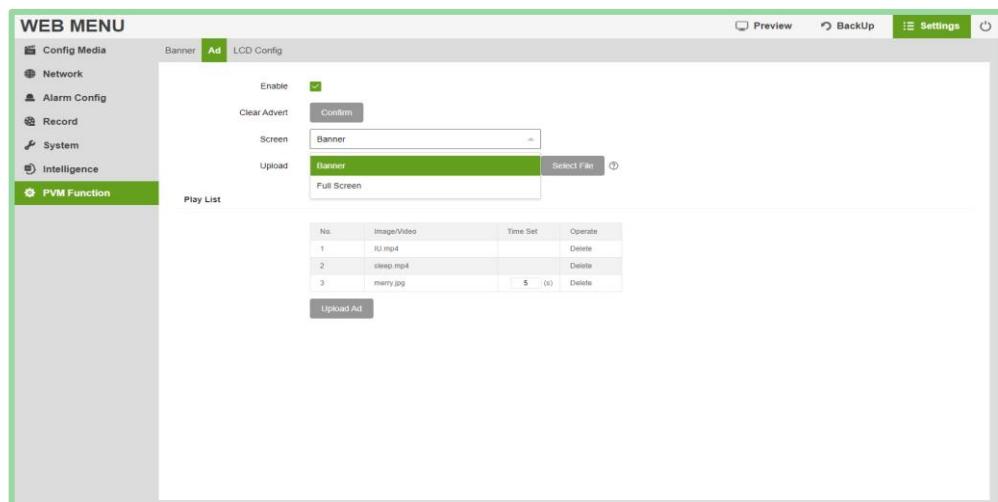
Video Code: H.264/265,

Audio Code: aac/ac3/pcm

②. The “Play List” also decides the playing sequence; So, before you upload AD files, please firstly confirm the playing sequence and then click “Upload Advert” at one shot;

③. When you browse the AD (picture), you can set its playing time, default 5s.

④. 9:16 IP video does not mean the real video aspect ratio is 9:16; In fact, to ensure the IP video normal for visitors to watch, we adopt “Video Digital Pan” technology, the IP video on the PVM will cruise like PTZ camera, so visitors will feel a complete 16:9 landscape standard cctv IP video.



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LCD Config:

Including LCD Time Switch Schedule and LCD Brightness 2 functions.

Please note:

- ①. When you set LCD brightness to 0, PVM screen is black.
- ②. Time Switch Schedule means you can set when PVM sleep & wake, when PVM enter into sleep mode, the built-in IP camera will still work for cctv monitoring.

The screenshot shows the 'LCD Config' page of the WEB MENU. The left sidebar has a 'PVM Function' section highlighted. The main area has tabs for 'Banner' and 'LCD Config', with 'LCD Config' selected. There is a 'Enable' checkbox and a 7x24 grid for setting LCD brightness levels. Below the grid are four time period fields (Time Period 1-4) with start and end times. There is a 'Select All' checkbox and checkboxes for each day of the week. A 'LCD Bright' dropdown is set to 7, and a 'Save' button is at the bottom.

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses

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and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.

The device can be used in mobile (min20cm) exposure condition.