

WIFI CAMERAS



Please read this manual thoroughly before use and keep it for future reference

www.comelitgroup.com

Comelit®
Passion. Technology. Design.

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WARNING

- This product is intended to be supplied by a Listed Power Unit, marked with 'Limited Power Source', 'LPS' on unit, output rated minimum 12VDC/2 A or POE 48VDC/ 350mA or 24VAC (depending on models), no more than 2000m altitude of operation and Tma= 60°C.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center as soon as possible if there is any failure.
- Avoid incorrect operation, shock vibration, heavy pressing which can cause damage to product.
- Do not use corrosive detergent to clean main body of the camera. If necessary, please use soft dry cloth; for hard contamination, use neutral detergent.
- Avoid aiming the camera directly towards extremely bright objects, such as sun, because this may damage the image sensor.
- Please follow the instructions to install the camera.
- Do not operate if temperature, humidity and power supply are beyond the limits.
- Keep away from heat sources such as radiators, heat registers, etc.
- Do not expose the product to the direct airflow from air conditioner.
- This manual is for using and managing the product. We reserve the rights of amending the errors, software upgrades and product improvements, interpretation and modification. These changes will be published in the latest version without special notification.
- All pictures, charts, images in this manual are only for description and explanation of our products. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the above-mentioned companies.
- **The instruction is for guidance only. Detailed information is in accordance with the product.**
- **Screenshots used in the instruction are only for indications and explanations.**
- **Some features are only available on certain camera models..**

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1 Network Connection

You may connect the camera via wired network or via wireless network.

1.1 Wi-Fi connection

There are three ways to connect the camera via Wi-Fi.

1. use the WPS (Wi-Fi Protected Setup) function. Press the WPS button on the router and then press the RST button on the camera within 120s to quickly connect the Wi-Fi. Pressing the RST button on the camera and then pressing the WPS button on the router will work as well. The red alarm indicator will flash when the Wi-Fi is connected (just for cube camera).

2. login to the camera through the wired network. Go to Config→Network→Wi-Fi interface. Enable Wi-Fi and select the desired wireless router. Then enter the password key.

3. login to the camera through the wired network. Go to Config→Network→Wi-Fi interface to enable and configure WPS function.

App monitoring

- ① Enable Wi-Fi function in your mobile phone.
- ② Open your phone's app store and search "Comelit View Advance".
- ③ Install this app in your phone.
- ④ Run this app and then add the IP address, username and password of the camera or scan the QRcode of the camera (Go to Config→System→Basic Information interface through web client. Please make sure the P2P function is enabled first).
IP address: please view the IP address of the camera in the wireless router.

Username: the **default** username is "**admin**".

Password: the **default** password is "**admin**".

- ⑤ View the image through the app.

If You use the 3G/4G/5G network, you shall view the IP address of the camera in the router and then forward the IP address and ports of the camera in the router (Config→Network→Port menu to set the port number). Then use the WAN IP address and port of the camera to log in the app. If P2P function is enabled in the camera, you can skip this step.

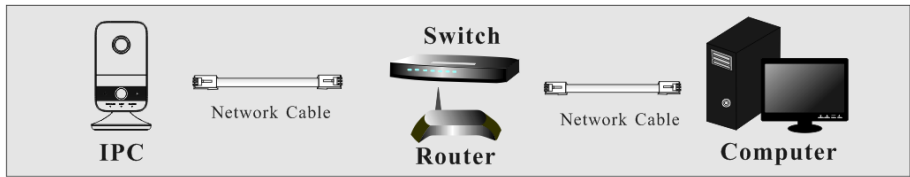
Note: only some specified version supports P2P function.

1.2 Wired network connection

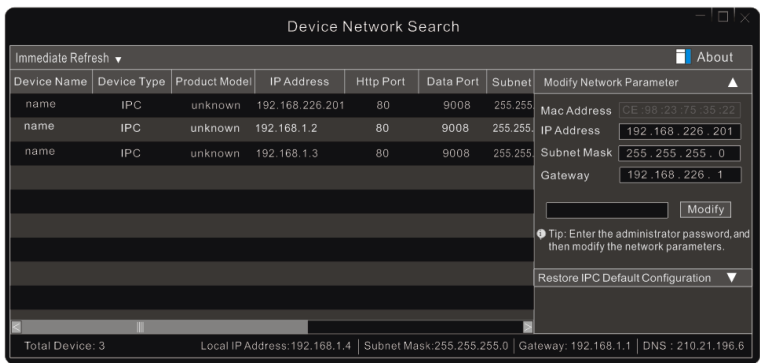
In LAN, there are two ways to access IPC: 1. through the software Comelit Advance IP Tool; 2. through Internet Explorer browser.

1.2.1 Access through Comelit Advance IP Tool

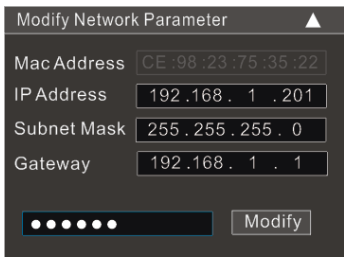
Network connection.



- ① Make sure the PC and IPC are connected to the LAN and the Comelit Advance IP Tool is installed in the PC.
- ② Double click the Comelit Advance IP Tool icon on the desktop to run this software as shown below:



- ③ Modify the IP address. The default **IP address** of the camera is **192.168.1.150**. Click the information of the camera listed in the above table to show the network information on the right hand. Modify the IP address and gateway of the camera and make sure that its network address is in the same local network segment as the computer's.



For example, the IP address of your computer is 192.168.1.4. Therefore, the IP address of the camera shall be changed to 192.168.1.X. After modification, please

enter the password of the administrator and click the “Modify” button to modify the setting.



The **default Password** of the administrator is **admin**.

- ④ Double click on the IP address and the system will pop up the IE browser to connect the IPC. Follow instructions to download, install and run the ActiveX control.

Comelit

Name: admin

Password: Password

Stream Type: 1920x1080 25fps

Language: English

☐ Remember me

Login

Enter the username and password in the login window.



The **default Username** is **admin**; the **default Password** is **admin**.

Please change the default password

☐ Modify Password

New Password

Confirm Password

☐ Do not show again

OK Cancel

The system will pop up the above textbox to ask you to change the default password. It is strongly recommended to change the default password for account security. If “Do not show again” is checked, the textbox will not appear the next time.

1.2.2 Access through Internet Explorer

The **default** network settings are shown below:

IP address: **192.168.1.150**

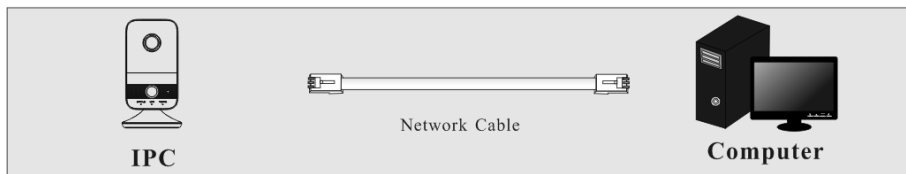
Subnet Mask: **255.255.255.0**

Gateway: **192.168.1.1**

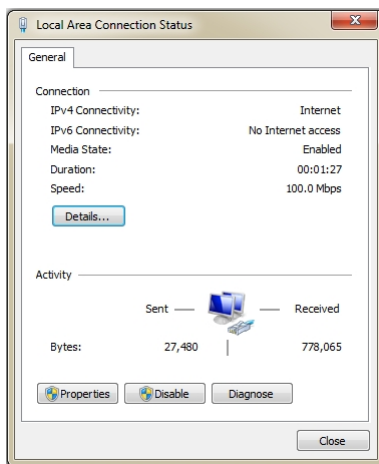
HTTP: **80**

Data port: **9008**

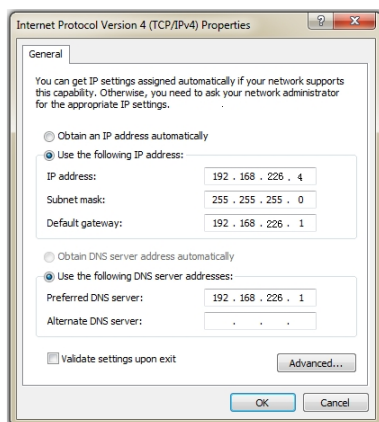
Use the above default settings when logging in the camera for the first time. Connect the camera to the computer directly through network cable.



① Manually set the IP address of the PC, the network segment should be the same as the default settings of the IP camera. Open the network and share center. Click “Local Area Connection” to pop up the following window:



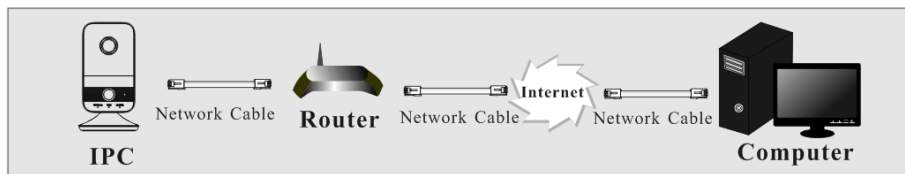
Select “Properties” and then select internet protocol (for example: IPv4). Next, click the “Properties” button to set the network of the PC.



- ② Open the IE browser, enter the default address of the IPC and confirm.
- ③ Follow instructions to download and install the ActiveX control.
- ④ Enter the default username and password in the login window and then enter to Live view.

1.2.3 WAN

➤ Access through the router or virtual server



- ① Make sure the camera is connected to the local network and then log in the camera via LAN and go to Config→Network→Port menu to set the port number.

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

Port Setup

- ② Go to Config →Network→TCP/IP menu to modify the IP address.

IPv4 IPv6 PPPoE Config IP Change Notification Config

☐ Obtain an IP address automatically

☐ Use the following IP address

IP Address

Subnet Mask

Gateway

Preferred DNS Server

Alternate DNS Server

IP Setup

- ③ Go to the router's management interface through Internet Explorer browser to forward the IP address and port of the camera in the "Virtual Server".

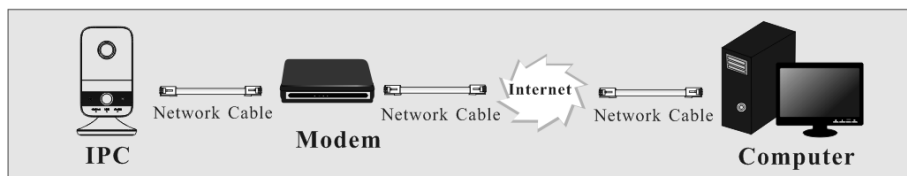
Port Range					
Application	Start	End	Protocol	IP Address	Enable
1	9007	to 9008	Both	192.168.1.201	☒
2	80	to 81	Both	192.168.1.201	☒
3	10000	to 10001	Both	192.168.1.166	☐
4	21000	to 21001	Both	192.168.1.166	☐

Router Setup

- ④ Open the Internet Explorer browser and enter its WAN IP and http port to access. (for example, if the http port is changed to 81, please enter "192.198.1.150:81" in the address bar of web browser to access).

➤ Access through PPPoE dial-up

Network connection



Access the camera through PPPoE auto dial-up. The setup steps are as follow:

- ① Go to Config→Network→Port menu to set the port number.
- ② Go to Config →Network→TCP/IP→PPPoE Config menu. Enable PPPoE and then enter the user name and password from your internet service provider.

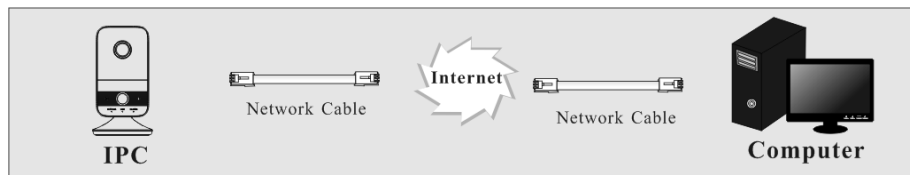
IPv4	IPv6	PPPoE Config	IP Change Notification Config
☒ Enable			
User Name		XXXXXXXX	
Password		●●●●●●	
Save			

③ Go to Config → Network → DDNS menu. Before configuring the DDNS, please apply for a domain name first. Please refer to DDNS configuration for detail information.

④ Open the IE browser and enter the domain name and http port to access.

➤ Access through static IP

Network connection

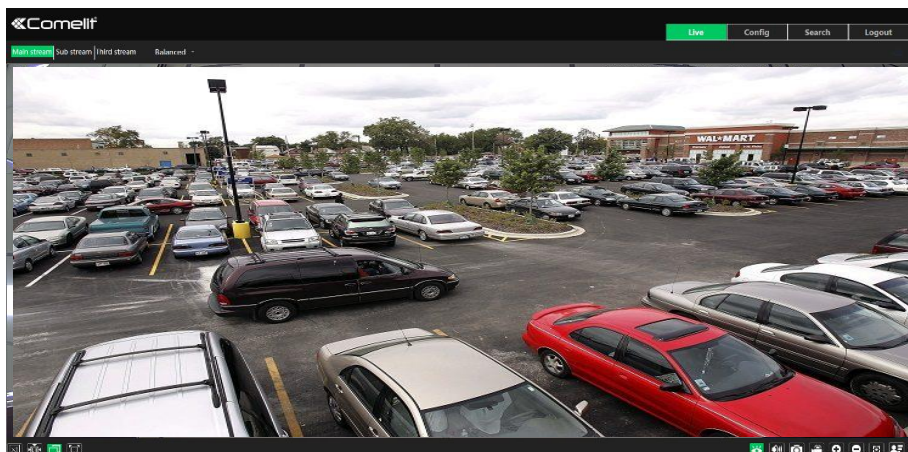


The setup steps are as follow:

- ① Go to Config → Network → Port menu to set the port number.
- ② Go to Config → Network → TCP/IP menu to set the IP address. Check “Use the following IP address” and then enter the static IP address and other parameters.
- ③ Open the Internet Explorer browser and enter its WAN IP and http port to access.

2 Live View

After you log in, you will see the following window.



The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
	Original size		Zoom in
	Fit correct scale		Zoom out
	Auto (fill the window)		Scene change indicator
	Full screen		Abnormal clarity indicator
	Start/stop live view		Color abnormal indicator
	Start/stop two-way audio		PIR (Passive Infrared) alarm indicator
	Enable/disable audio		Sensor alarm indicator
	Snapshot		Motion alarm indicator
	Start/stop recording local		

Those indicators will flash only if the camera supports those functions and the corresponding events are enabled.

In full screen mode, double click with the mouse to exit or press the ESC key on the keyboard.

3 Network Camera Configuration

In the Webcam client, choose “Config” to go to the configuration interface.

Note: Wherever applicable, click the “Save” button to save the settings

3.1 System Configuration

3.1.1 Basic Information

In the “Basic Information” interface, the information of the device are listed.

Device Name	IPC
Product Model	WICAMA02FA
Brand	Comelit
Software Version	4.2.1.0(25401)
Software Build Date	2019-11-12
Kernel Version	20190629
Hardware Version	1.3
Onvif Version	18.06
OCX Version	2.0.3.6
MAC	00:18:ae:ad:63:7f
Device ID	I637F04AM90E



Some versions may support device ID and QR code. If P2P is enabled (see Network Configuration-P2P), the network camera can be quickly added to mobile surveillance client, by scanning the QR code or entering device ID.

3.1.2 Date and Time

Go to Config→System→Date and Time. Please refer to the following interface.

Zone Date and Time

Zone GMT+01 (Amsterdam, Berlin, Rome, Stockholm, Warsaw) ▼

☒ DST

☐ Auto DST

☒ Manual DST

Start Time January ▼ First ▼ Sunday ▼ 00 ▼ Hour

End Time February ▼ First ▼ Monday ▼ 00 ▼ Hour

Time Offset 120 Minutes ▼

Select the time zone and DST as required.

Click the “Date and Time” tab to set the time mode.

Zone **Date and Time**

Time Mode:

☐ Synchronize with NTP server

NTP server: Update period: Minutes

☒ Synchronize with computer time

Date: Time:

☐ Set manually

Date: Time:

3.1.3 Local Configuration

Go to Config→System→Local Config to set up the storage path of captured pictures and recorded videos on the local PC. There is also an option to enable or disable the bitrate display in the recorded files.

Save snapshots to	C:\Program Files\NetAlIPCamera	Browse
Save recording files to	C:\Users\fabio.staffoni\Desktop	Browse
Audio Recording	☒ Open ☐ Close	
Bitrate Overlay	☒ Open ☐ Close	

3.1.4 Storage

Go to Config→System→Storage to go to the interface as shown below.

Management	Record	Snapshot
Total picture capacity	76 MB	
Picture remaining space	0 MB	
Total recording capacity	7488 MB	
Record remaining space	2048 MB	
State	Normal	
Snapshot Quota	1 %	
Video Quota	99 %	
Changes in the quota ratio need to be formatted before they become effective.		
Eject Format		

● Micro-SD Card Management

Click the “Format” button to format the micro-SD card. All data will be erased by clicking this button.

Click the “Eject” button to stop writing data to micro-SD card. Then the micro-SD card can be removed safely.

Snapshot Quota: set the capacity of captured pictures on the micro-SD card.

Video Quota: set the capacity of record files on the micro-SD card.

● Schedule Recording Settings

1. Go to Config→System→Storage→Record to go to the interface as shown below.

Management **Record** Snapshot

Record Parameters

Record Stream: Main stream ▼

Pre Record Time: No Pre Record ▼ (H264,H265,MJPEG)

Cycle Write: Yes ▼

Timing

☒ Enable Schedule Record

2. Set record stream, pre-record time, cycle writing.

Pre Record Time: Set the time to record before the actual recording begins.

3. Set schedule recording. Check “Enable Schedule Record” and set the schedule.

Week Schedule ● Erase ○ Add

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sun.	00:00-24:00 Manual Input																								
Mon.	00:00-24:00 Manual Input																								
Tue.	00:00-24:00 Manual Input																								
Wed.	00:00-24:00 Manual Input																								
Thu.	00:00-24:00 Manual Input																								
Fri.	00:00-24:00 Manual Input																								
Sat.	00:00-24:00 Manual Input																								

Holiday Schedule

Date: 11-12 Add Delete

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	00:00-24:00 Manual Input																								

Weekly schedule

Set the alarm record time from Monday to Sunday for a single week. Each day is divided in one hour. Green means scheduled. Blank means unscheduled.

“Add”: add the schedule for a specific day. Drag the mouse to set the time on the timeline.

“Erase”: delete the schedule. Drag the mouse to delete the time on the timeline.

Manual Input: click it on a specific day to enter specific start and end time.

Day schedule

Set the alarm record time for a specific day, such as a holiday.

Note: Holiday schedule takes priority over weekly schedule.

● Snapshot Settings

Go to Config→System→Storage→Snapshot to go to the interface as shown below.

Management	Record	Snapshot
Snapshot Parameters		
Image Format	JPEG	▼
Resolution	704x576	▼
Image Quality	Low	▼
Event Trigger		
Snapshot Interval	1	Second
Snapshot Quantity	5	
Timing		
☐ Enable Timing Snapshot		
Snapshot Interval	5	Second

Set the format, resolution and quality of the image saved on the micro-SD card, the snapshot interval and quantity and the timing snapshot here.

Snapshot Quantity: is the maximum quantity of snapshots. The actual quantity of snapshots may be less than this number. Supposing the occurrence time of an alarm event is less than the time of capturing pictures, the actual quantity of snapshots is less than the set quantity of snapshots.

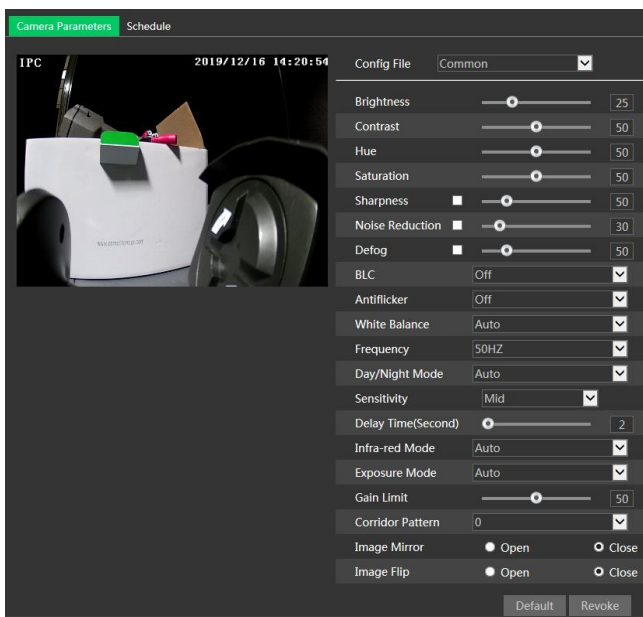
Enable Timing Snapshot: enable timing snapshot first and then set the snapshot interval and schedule. The setup steps of schedule are the same as the schedule recording.

3.2 Image Configuration

Image Configuration includes Display, Video/Audio, OSD, Video Mask and ROI Config.

3.2.1 Display Configuration

Go to Image→Display Settings interface as shown below. The image's brightness, contrast, hue and saturation and so on for common, day and night mode can be set up separately. The image effect can be quickly seen by switching the configuration file.



Brightness: set the brightness level.

Contrast: set the contrast.

Hue: set the hue.

Saturation: set the saturation.

Sharpness: set the sharpness.

Noise Reduction: decrease the noise to make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.

Defog: activate this function and set an appropriate value as needed in foggy, dusty, smoggy or rainy environment to get clear images.

Backlight Compensation (BLC):

- Off: disables the backlight compensation function (default).
- HWDR: WDR can adjust the camera to provide a better image when there are both very bright and very dark areas simultaneously in the field of the view by lowering the brightness of the bright area and increasing the brightness of the dark area. Recording will be stopped for a few seconds while the mode is changing from non-WDR to WDR mode.
- HLC: lowers the brightness of the entire image by suppressing the brightness of the image's bright area and reducing the size of the halo area.
- BLC: If enabled, the auto exposure will activate according to the scene so that the object of the image in the darkest area will be seen clearly.

Antiflicker:

- Off: disables the anti-flicker function. This is used in outdoor installations.
- 50Hz: reduces flicker in 50Hz lighting conditions.
- 60Hz: reduces flicker in 60Hz lighting conditions.

White Balance: adjust the color temperature according to the environment automatically.

Frequency: 50Hz or 60Hz.

Day/Night Mode: Auto, Day, Night or Timing.

Sensitivity: high, middle or low.

Infrared Mode: ON, OFF or Auto.

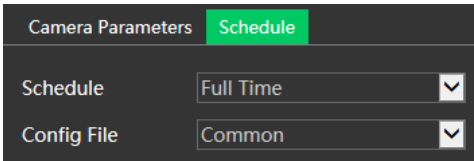
Exposure Mode: Auto or Manual. If manual is chosen, the digital shutter speed can be adjusted.

Corridor Pattern: corridor viewing modes can be used for situations such as long hallways. 0°, 90°, 180° and 270° are available. The default value is 0°. The video resolution should be 1080p or below if this function is used.

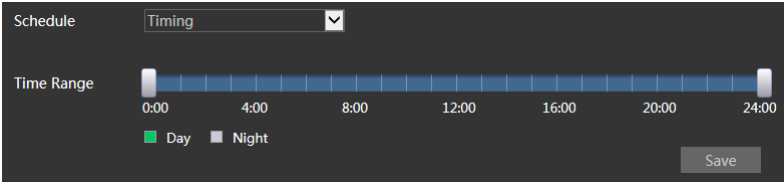
Image Mirror: turn the current video image horizontally.

Image Flip: turn the current video image vertically.

Schedule Settings of Image Parameters.
Click the “Schedule” tab as shown below.



Set full time schedule for common, day, night mode and specific time schedule for day and night mode. Choose “Schedule” in the drop-down box as shown below.



Drag “” icons to set the time of day and night. Blue means day time and blank means night time. If the current mode of camera parameters is set to schedule, the image configuration mode will automatically switch between day and night according to the schedule.

3.2.2 Video / Audio Configuration

Go to Image→Video / Audio interface as shown below. In this interface, set the resolution, frame rate, bitrate type, video quality and so on.

Video

Audio

Index	Stream Name	Resolution	Frame Rate	Bitrate Type	Bitrate(Kbps)	Video Quality	I Frame Interval	Video Compression	Profile
1	Main stream	1920x1080	25	CBR	3072	Highest	100	H264	High Profile
2	Sub stream	704x576	25	CBR	768	Highest	100	H264	High Profile
3	Third stream	352x288	25	CBR	512	Highest	100	H264	High Profile

Send Snapshot Sub stream: ☒ Size: (704x576)

☐ Video encode slice split

☐ Watermark (H264, H265) Watermark content:

Click the “Audio” tab to go to the interface as shown below.

Video

Audio

☒ Enable

Audio Encoding

G711A

Audio Type

LIN

Save

Three video streams can be adjustable.

Resolution: image resolution.

Frame rate: the higher the frame rate, the video is smoother.

Bitrate type: CBR or VBR. Bitrate is related to image quality. CBR means that no matter how much change is seen in the video scene, the bitrate will be kept constant. VBR means that the bitrate will be adjusted according to scene changes.

Bitrate: it can be adjusted when the mode is set to CBR. The higher the bitrate, the better the image quality will be.

Video Quality: it can be adjusted when the mode is set to VBR. The higher the image quality, more bitrate will be required.

I Frame interval: it determines how many frames are allowed between a “group of pictures”. When a new scene begins in a video, until that scene ends, the entire group of frames (or pictures) can be considered as a group of pictures. If there is not much movement in the scene, setting the value higher than the frame rate is fine, potentially resulting in less bandwidth usage. However, if the value is set too high, and there is a high frequency of movement in the video, there is a risk of frame skipping.

Video Compression:H264, H265 or MJPEG. If H.265 is chosen, make sure the client system is able to decode H.265.

Profile: for H.264, Baseline, Main and High profiles are selectable.

Send Snapshot: set how many snapshots to generate for an event.

Video encode slice split: if this function is enabled, smooth image can be gotten even though using the low-performance PC.

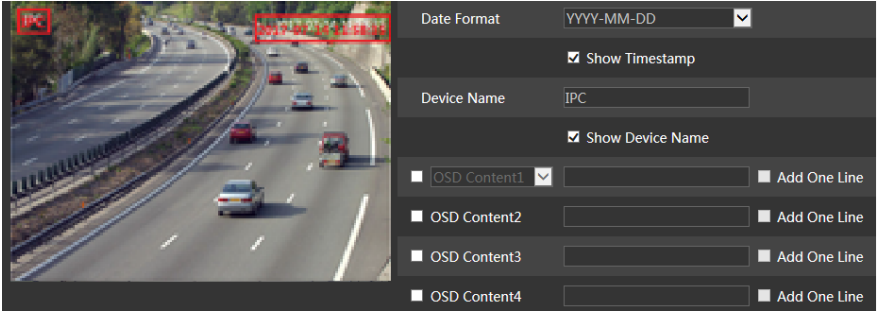
Watermark: when playing back the local recorded video in the search interface, the watermark can be displayed. To enable it, check the watermark box and enter the watermark text.

Audio Encoding: G711A or G711U.

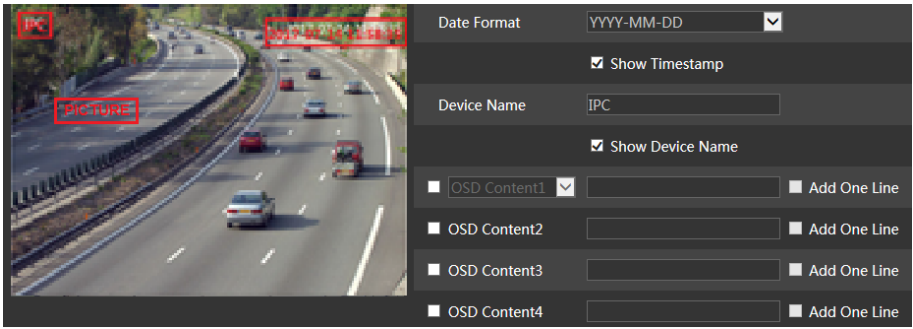
Audio Type: LIN.

3.2.3 OSD Configuration

Go to Image→OSD interface as shown below.



Set timestamp, device name, OSD content and picture overlap here. After enabling, entering the content and drag them to change their position. Then click the “Save” button to save the settings.

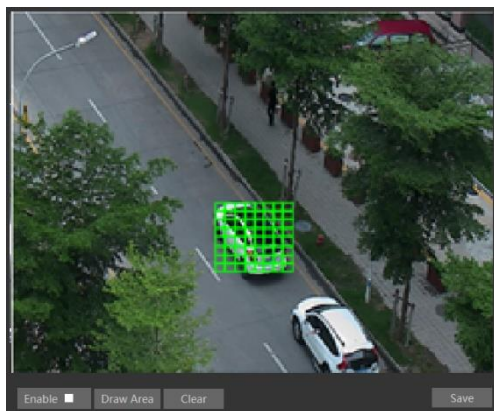


Picture Overlap settings.

Check “OSD Content1”, choose “Picture Overlay” and click “Browse” to select the overlap picture. Then click “Upload” to upload the overlap picture. The size of the image shall not exceed 200x200 pixels or it cannot be uploaded.

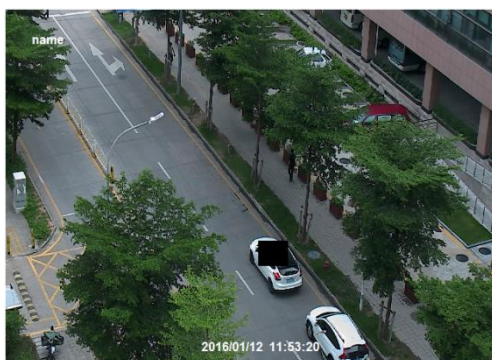
3.2.4 Video Mask

Go to Image→Video Mask interface as shown below. A maximum of 4 zones can be setup.



To set up video mask.

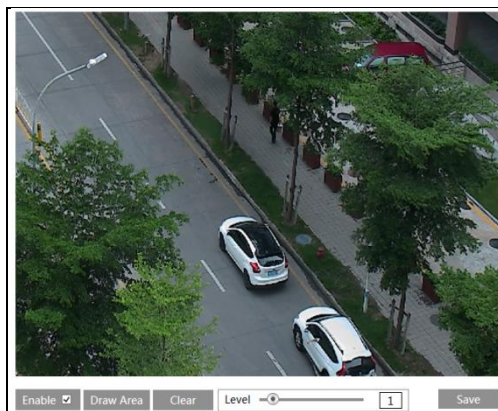
1. Enable video mask.
2. Click the “Draw Area” button and then drag the mouse to draw the area.
3. Click the “Save” button to save the settings.
4. Return to the live to verify the area.



Click the “Clear” button to delete the current video mask area.

3.2.5 ROI Configuration

Go to Image→ROI Config interface as shown below. An area in the image can be set as a Region Of Interest. This area will have a higher bitrate than the rest of the image, resulting in better image quality for the identified area.



1. Check "Enable" and then click the "Draw Area" button.
2. Drag the mouse to set the ROI area.
3. Set the level.
4. Click the "Save" button to save the settings.

3.3 Alarm Configuration

3.3.1 Motion Detection

Go to Alarm→Motion Detection to set motion detection alarm.

Alarm Config

Area and Sensitivity

Schedule

☒ Enable

Alarm Holding Time 20 Seconds

Trigger Alarm Out

☐ Alarm Out

☐ Trigger Audio Alarm

☐ Trigger Snap

☐ Trigger SD Recording

☐ Trigger Email

☐ Trigger FTP

Save

1. Check "Enable" check box to activate the function.

Alarm Out: if selected, this would trigger an external relay output that is connected to the camera on detecting a motion based alarm.

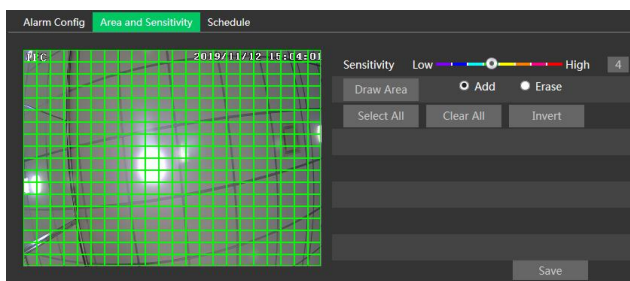
Trigger Snap: if selected, the system will capture images on motion detection and save the images on the micro-SD card.

Trigger SD Recording: if selected, video will be recorded on the micro-SD card on motion detection.

Trigger Email: if "Trigger Email" and "Attach Picture" are checked (email address must be set first in the Email configuration interface), the captured pictures and triggered event will be sent via e-mail.

Trigger FTP: if "Trigger FTP" and "Attach Picture" are checked, the captured pictures will be sent into FTP server address. Please refer to FTP configuration chapter for more details.

2. Set motion detection area and sensitivity. Click the "Area and Sensitivity" tab to go to the interface as shown below.



Move the "Sensitivity" scroll bar to set the sensitivity. Higher sensitivity value means that motion alarm will be triggered more easily.

Select "Add" and click "Draw Area". Drag the mouse to draw the motion detection area; Select "Erase" and drag the mouse to clear motion detection area.

After that, click the "Save" to save the settings.

3. Set the "Schedule" for motion detection. The schedule setup steps of the motion detection are the same as the schedule recording setup.

3.3.2 PIR Alarm (just for cube camera)

PIR alarm: alarms will be triggered when the camera detects human bodies or animals.

1. Enable PIR alarm and then set the alarm holding time.

2. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

3. Set the schedule for PIR alarm. The schedule setup steps of the PIR alarm are the same as the schedule recording setup.

Alarm Config Schedule

☒ Enable

Alarm Holding Time 20 Seconds ▼

Trigger Alarm Out

☒ Alarm Out

☐ Trigger Snap

☐ Trigger SD Recording

☐ Trigger Email

☐ Trigger FTP

Save

3.3.3 Other Alarms

● Micro-SD card full

1. Go to Config→Alarm→Anomaly→SD Card Full.

SD Card Full SD Card Error IP Address Collision Cable Disconnected

☒ Enable

Alarm Holding Time 20 Seconds ▼

Trigger Alarm Out

☒ Alarm Out

☐ Trigger Email

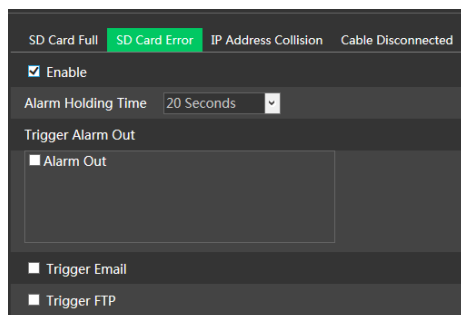
☐ Trigger FTP

2. Click “Enable” and set the Alarm Holding Time.
3. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

● Micro-SD card error

When there are some errors in writing the micro-SD card, the corresponding alarms will be triggered.

1. Go to Config→Alarm→Anomaly→SD Card Error as shown below.



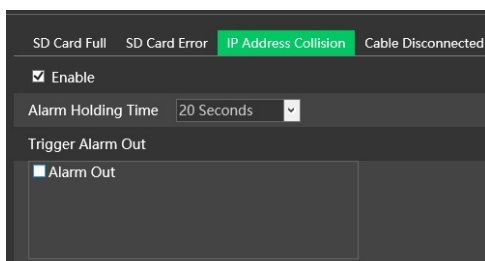
2. Click “Enable” and set the Alarm Holding Time.

3. Set alarm trigger options. Trigger alarm out, Email and FTP. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

Note: micro-SD card full and micro-SD card error are only available for the models with micro-SD card slot.

● IP Address Conflict

1. Go to Config→Alarm→Anomaly→IP Address Collision as shown below.



2. Click “Enable” and set the Alarm Holding Time.

3. Trigger Alarm Out. When the IP address of the camera is in conflict with the IP address of other devices, the system will trigger the alarm out.

Note: this function is only available for the models with alarm output interface.

● Cable disconnected

1. Go to Config→Alarm→Anomaly→Cable Disconnected as shown below.

2. Click “Enable” and set the Alarm Holding Time.

3. Trigger Alarm Out. When the camera is disconnected, the system will trigger the alarm out.

Note: this function is only available for the models with alarm output interface.

3.3.4 Alarm In

To set sensor alarm (Alarm In): go to Config→Alarm→Alarm In interface as shown below.

1 Click “Enable” and set the Alarm Type, Alarm Holding Time and Sensor Name.

2. Set alarm trigger options.

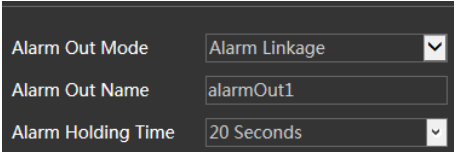
3. Click the “Save” button to save the settings.

4. Set the schedule of the sensor alarm. The setup steps of the schedule are the same as the schedule recording setup.

Note: this function is only available for the models with alarm input interface.

3.3.5 Alarm Out

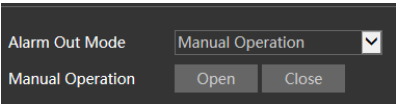
Go to Config→Alarm→Alarm Out.



Alarm Out Mode: Alarm Linkage (dropdown)
Alarm Out Name: alarmOut1 (text field)
Alarm Holding Time: 20 Seconds (dropdown)

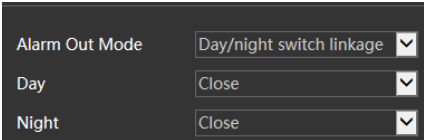
Alarm Out Mode: Alarm linkage, Manual Operation, Day/Night Switch Linkage or Timing.

- **Alarm Linkage:** after selecting this mode, set the Alarm Out Name and the Alarm Holding Time in the “Alarm Holding Time” pull down list box.
- **Manual Operation:** after selecting this mode, click “Open” to trigger the alarm out immediately. Click “Close” to stop alarm output.



Alarm Out Mode: Manual Operation (dropdown)
Manual Operation: Open (button), Close (button)

- **Day/Night Switch Linkage:** after selecting this mode, choose to Open or Close the alarm output when the camera switches to day mode or night mode.



Alarm Out Mode: Day/night switch linkage (dropdown)
Day: Close (dropdown)
Night: Close (dropdown)

- **Timing:** select the alarm type. Select “Add” and drag the mouse on the timeline to set the schedule of alarm out. Select “Erase” and drag the mouse on the timeline to delete the set time schedule. After the schedule is saved, the alarm out will be triggered in the specified time.



Alarm Out Mode: Timing (dropdown)
Time Range: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Manual Input: []
Buttons: Erase (radio), Add (radio), Save (button)

3.3.6 Alarm Server

Go to Alarm→Alarm Server interface as shown below.

Set the server address, port, heartbeat and heartbeat interval. When an alarm occurs, the camera will transfer the alarm event to the alarm server.

Server Address	
Port	0
Heartbeat	Disable 
Heartbeat interval	30 Second

3.4 Event

For more accuracy, here are some recommendations for installation.

- Cameras should be installed on stable surfaces, as vibrations can affect the accuracy of detection.
- Avoid pointing the camera to reflective surfaces (like shiny floors, mirrors, glass, lake surfaces and so on).
- Avoid places that are narrow or have too much shadowing.
- Avoid scenario where the object's color is similar to the background color.
- At any time of day or night, please make sure the image of the camera is clear and with adequate and even light, avoiding overexposure or too much darkness on both sides.

3.4.1 Exception

This function can detect changes in the surveillance environment affected by the external factors.

To set exception detection go to Config→Event→Exception interface as shown below.

Detection Config
Sensitivity

☐ Scene change detection
 ☐ Video blur detection
 ☐ Enable video color cast detection

Alarm Holding Time Seconds 

Trigger Alarm Out

☐ Alarm Out

☐ Trigger Snap
 ☐ Trigger SD Recording
 ☐ Trigger Email
 ☐ Trigger FTP

1. Enable the detection desired.

Scene Change Detection: alarm will be triggered if the scene change.

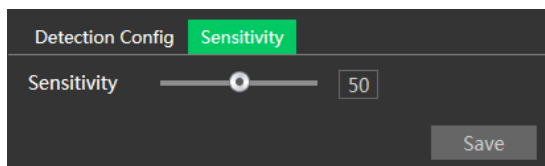
Video Blur Detection: alarm will be triggered if the video becomes blurry.

Enable Video Color Cast Detection: alarm will be triggered if the video becomes obscured.

2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

3. Click “Save” button to save the settings.

4. Set the sensitivity of the exception detection. Click “Sensitivity” tab to go to the interface as shown below.



Drag the slider to set the sensitivity value or directly enter the sensitivity value in the textbox. Click “Save” button to save the settings.

※ Camera configuration and surrounding area

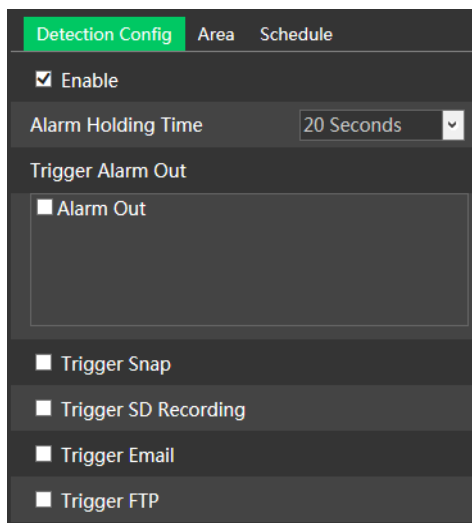
1. Auto-focus function should not be enabled for exception detection.

2. Not enable exception detection when light changes greatly in the scene.

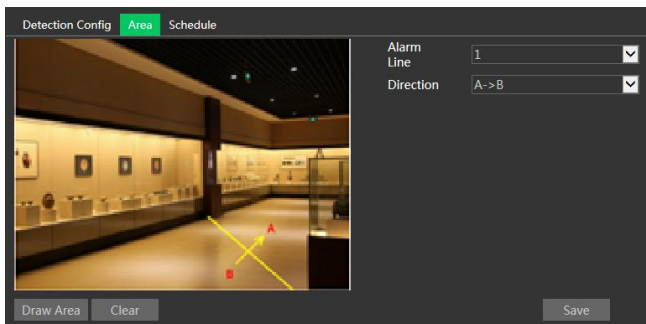
3.4.2 Line Crossing

Line Crossing: alarm will be triggered if the target crosses the pre-defined alarm lines.

Go to Config→Event→Line Crossing interface as shown below.



1. Enable line crossing alarm and set the alarm holding time.
2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection.
3. Click the “Save” button.
4. Set the area and the sensitivity of the line crossing alarm. Click the “Area” tab to go to the interface as shown below.



Set the alarm line number and direction. Up to 4 lines can be added.

Direction: $A \leftrightarrow B$, $A \rightarrow B$ or $A \leftarrow B$. This indicates the direction of the intruder/vehicle that crossover the alarm line.

$A \leftrightarrow B$: the alarm will be triggered when the intruder/vehicle crossover the alarm line from B to A or from A to B.

$A \rightarrow B$: the alarm will be triggered when the intruder/vehicle crossover the alarm line from A to B.

$A \leftarrow B$: the alarm will be triggered when the intruder/vehicle crossover the alarm line from B to A.

Click the “Draw Area” button and then drag the mouse to draw a line in the image.

Click the “Stop Draw” button to stop drawing. Click the “Clear” button to delete the lines.

Click the “Save” button to save the settings.

5. Set the schedule of the line crossing alarm. The setup steps of the schedule are the same as the schedule recording setup.

※ Camera configuration and surrounding area

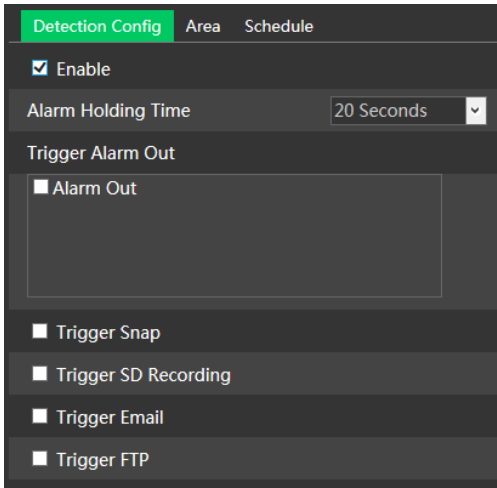
1. Auto-focus function should not be enabled for line crossing detection.
2. Avoid the scenes with many trees or the scenes with various light changes (like many flashing headlights). The environment brightness of the scenes shouldn't be too low.
3. Cameras should be mounted at a height of 2.8 meters or above.
4. Keep the mounting angle of the camera at about 45°.
5. The detected objects should not be less than 1% of the entire image and the largest sizes of the detected objects should not be more than 1/8 of the entire image.

- 6. Make sure cameras can view objects for at least 2 seconds in the detected area for accurate detection.
- 7. Adequate light and clear scenery are crucial for line crossing detection.

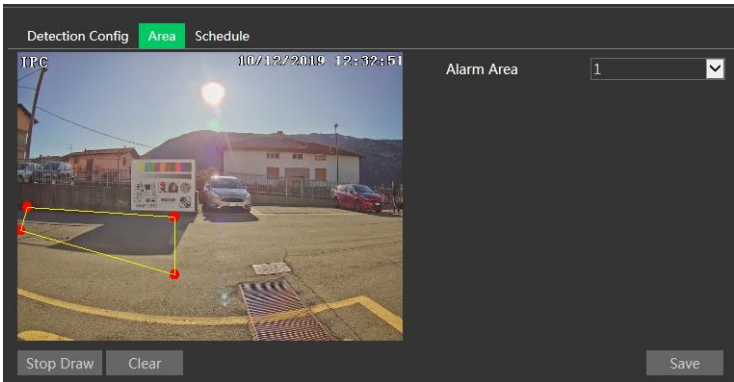
3.4.3 Intrusion

Intrusion: alarms will be triggered if the target intrudes and loiters in the pre-defined areas. This function can be applicable to important supervision places, danger areas and prohibited areas, like military administrative zones, high danger areas, no man's areas, etc.

Go to Config→Event→Intrusion interface as shown below.



- 1. Enable intrusion detection alarm and set the alarm holding time.
- 2. Set alarm trigger options. The setup steps are the same as motion detection.
- 3. Click the “Save” button.
- 4. Set the area and the sensitivity. Click the “Area” tab to go to the interface.



Set the alarm area number on the right side. Up to 4 alarm areas can be added. Click the “Draw Area” button and then click around the area where you want to set in the image on the left side (the alarm area should be a closed area). Click the “Stop Draw” button to stop drawing. Click the “Clear” button to delete the alarm area. Click the “Save” button to save the settings.

5. Set the schedule of the intrusion detection. The setup steps of the schedule are the same as schedule recording setup.

※ Camera configuration and surrounding area

1. Auto-focus function should not be enabled for line crossing detection.
2. Avoid the scenes with many trees or the scenes with various light changes (like many flashing headlights). The environment brightness of the scenes shouldn't be too low.
3. Cameras should be mounted at a height of 2.8 meters or above.
4. Keep the mounting angle of the camera at about 45°.
5. The detected objects should not be less than 1% of the entire image and the largest sizes of the detected objects should not be more than 1/8 of the entire image.
6. Make sure cameras can view objects for at least 2 seconds in the detected area for accurate detection.
7. Adequate light and clear scenery are crucial for intrusion detection.

3.4.4 Object removal (just for bullet camera)

Alarms will be triggered when the objects removed from or left in the pre-defined area.

To set object removal:

Go to Config→Event→Object Removal interface as shown below.

Detection Config
Area
Schedule

☒ Enable

☐ Enable Left Detection
☐ Enable Item Missing Detection

Alarm Holding Time
20 Seconds

☐ Trigger Snap
☐ Trigger SD Recording
☐ Trigger Email
☐ Trigger FTP

Save

1. Enable object removal detection and then select the detection type.

Enable Left Detection: alarm will be triggered if there are items left in the pre-defined area.

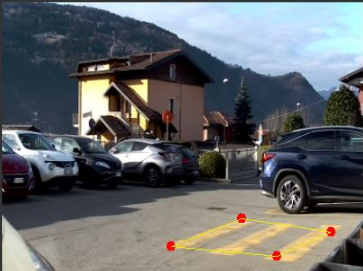
Enable Item Missing Detection: alarm will be triggered if there are items missing in the pre-defined area.

2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection.

3. Click “Save” to save the settings.

4. Set the alarm area of the object removal detection. Click the “Area” tab to go to the interface as shown below.

Detection Config
Area
Schedule



Alarm Area
1

Area Name

Stop Draw
Clear
Save

Set the alarm area number and then enter the desired alarm area name. Up to 4 alarm areas can

be added. Click “Draw Area” and then select the area where you want to set as the alarm area in the image (the alarm area should be a closed area). Click “Stop Draw” to stop drawing. Click “Clear” to delete the alarm area. Click “Save” to save the settings.

5. Set the schedule of the object removal detection. The setup steps of the schedule are the same as the schedule recording setup.

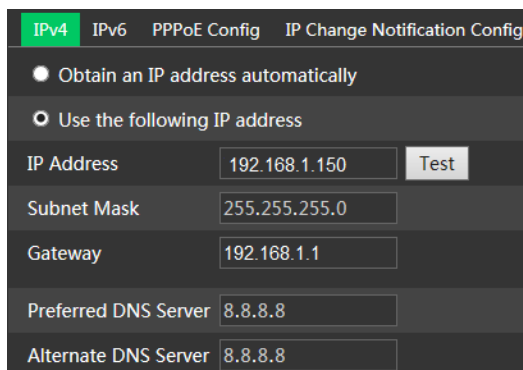
※ Camera configuration and surrounding area

1. The detected objects should not be less than 1/50 to 1/3 of the entire image.
2. Make sure cameras can view objects for at least from 3 to 5 seconds.
3. The defined area cannot be covered frequently and continuously (i.e. people and traffic).
4. The drawn frame must be very close to the margin of the object to enhancing the sensitivity and accuracy of the detection.
5. Not enable object removal detection with scenes with various light changes.
6. Not enable object removal detection if there are complex and dynamic environments in the scene.
8. Adequate light and clear scenery are crucial for object removal detection.

3.5 Network Configuration

3.5.1 TCP/IP

Go to Config→Network→TCP/IP interface as shown below.



IPv4	IPv6	PPPoE Config	IP Change Notification Config
☒ Obtain an IP address automatically			
☐ Use the following IP address			
IP Address	192.168.1.150	Test	
Subnet Mask	255.255.255.0		
Gateway	192.168.1.1		
Preferred DNS Server	8.8.8.8		
Alternate DNS Server	8.8.8.8		

Use IP address (IPv4 for example). There are two options for IP setup: "Obtain an IP address automatically" (by DHCP) and "Use the following IP address".

Test: test the effectiveness of the IP address by clicking the button.

Use PPPoE. Click the “PPPoE Config” tab to go to the interface as shown below. Enable PPPoE and then enter the user name and password from your ISP.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
☒ Enable			
User Name		xxxxxxxx	
Password		•••••	
Save			

Either methods of network connection can be used. If PPPoE is used to connect internet, the camera will get a dynamic WAN IP address. This IP address will change frequently. To be notified, the IP change notification function can be used.

Click “IP Change Notification Config” to go to the interface as shown below.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
☐ Trigger Email			
☐ Trigger FTP			
Save			

Trigger Email: when the IP address of the device change, the new IP address will be sent to the email address that has been set up.

Trigger FTP: when the IP address of the device change, the new IP address will be sent to FTP server that has been set up.

3.5.2 Port

Go to Config→Network→Port interface as shown below. HTTP port, Data port and RTSP port can be set.

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

HTTP Port: default is 80.

HTTPS Port: default is 443.

Data Port: default is 9008.

RTSP Port: default is 554.

3.5.3 Server Configuration

This function is used for connecting the Comelit Advance VMS.

☐ Enable
 Server Port: 2009
 Server Address:
 Device ID: 1
 Save

1. Check "Enable".
2. Check the IP address and port of the transfer media server in the Comelit Advance VMS. Then enable the auto report in the Comelit Advance VMS when adding a new device. Next, enter the remaining information of the device in the Comelit Advance VMS. After that, the system will automatically allot a device ID. Please check it in the Comelit Advance VMS.
3. Enter the above-mentioned server address, server port and device ID in the corresponding boxes. Click the "Save" button to save the settings.

3.5.4 DDNS

If the camera is set up with a DHCP connection, DDNS should be set.

1. Go to Config→Network→ DDNS.

Port Server **DDNS** SNMP 802.1X RTSP UPnP Email FTP HTTPS P2P QoS
☒ Enable
 Server Type: www.comelitdns.com
 User Name:
 Password:
 Domain:
 Save

2. Apply for a domain name. Take www.comelitdns.com for example. Enter www.comelitdns.com in the IE address bar to visit its website. Choose your language and then click the "Register product" button.

3.5.5 SNMP

To get camera status, parameters and alarm information and remotely manage the camera, the SNMP function can be used. Before using SNMP, please install an SNMP management tool and set the parameters of the SNMP, such as SNMP port, trap address.

1. Go to Config→Network→SNMP.
2. Check the corresponding version checkbox (Enable SNMPv1, Enable SNMPv2, Enable SNMPv3) according to the version of the SNMP software that will be used.
3. Set the values for "Read SNMP Community", "Write SNMP Community", "Trap Address", "Trap Port" and so on. Please make sure the settings are the same as that

of the SNMP software.

Note: please use the different version in accordance with the security level you required. The higher the version is, the higher the level of the security is.

SNMP v1/v2	
☐ Enable SNMPv1	
☐ Enable SNMPv2	
Read SNMP Community	public
Write SNMP Community	private
Trap Address	192.168.226.201
Trap Port	162
Trap community	public

SNMP v3	
☐ Enable SNMPv3	
Read User Name	public
Security Level	auth, priv
Authentication Algorithm	☒ MD5 ☐ SHA
Authentication Password	●●●●●●●●
Private-key Algorithm	☒ DES ☐ AES
Private-key Algorithm	●●●●●●●●
Write User Name	private
Security Level	auth, priv
Authentication Algorithm	☒ MD5 ☐ SHA
Authentication Password	●●●●●●●●
Private-key Algorithm	☒ DES ☐ AES
Private-key Algorithm	●●●●●●●●

Other Settings	
SNMP Port	161

3.5.6 802.1x

If it is enabled, the camera's data can be protected. When the camera is connected to the network protected by the IEEE802.1x, user authentication is needed.

To use this function, the camera shall be connected to a switch supporting 802.1x protocol. The switch can be reckoned as an authentication system to identify the device in a local network. If the camera connected to the network interface of the switch has passed the authentication of the switch, it can be accessed via the local network.

Protocol Type and EAPOL Version: please use the default settings.

Username and Password: the Username and the Password must be the same with the username and password applied for and registered in the authentication server.

3.5.7 RTSP

Go to Config→Network→RTSP.

Select “Enable” to enable the RTSP function.

Port: access port of the streaming media (default is 554).

Address: the RTSP address (unicast) format that can be used to play the stream in a media player.

Multicast Address

Main stream: the address format is

rtsp://IP address: rtsp port/profile1?transportmode=mcast

Sub stream: the address format is

rtsp://IP address: rtsp port/profile2?transportmode=mcast

Third stream: the address format is

rtsp://IP address: rtsp port/profile3?transportmode=mcast

Audio: by entering the main/sub stream address in the VLC player, the video and audio will play automatically.

If “Allow anonymous login...” is checked, there is no need to enter the username and password to view the video.

If “auto start” is enabled, the multicast received data should be added into a VLC player to play the video.

- Note:**
1. This camera support local play through a VLC player. Enter the RTSP address (unicast or multicast, eg. rtsp://192.168.226.201:554/profile1?transportmode=mcast) in the VLC player to realize the simultaneous play with the web client.
 2. The IP address mentioned above cannot be IPv6.
 3. Avoid the use of the same multicast address in the same local network.
 4. When playing the video through the multicast streams in a VLC player, please pay attention to the mode of the VLC player. If it is set to TCP mode, the video cannot be played.
 5. If the coding format of the video of the main stream is MJPEG, the video may be disordered at some resolutions.

3.5.8 UPNP

If this function is enabled, the camera can be quickly accessed through the LAN. Go to Config→Network→UPnP. Enable UPNP and then enter UPnP name.



3.5.9 Email

If you need to trigger Email when an alarm happens or IP address is changed, please set the Email here first.

Go to Config→Network →Email.

Sender

Sender Address

User Name

Password

Server Address

Secure Connection Unnecessary ▼

SMTP Port 25 Default

☐ Send Interval(S) 60 (10-3600)

Clear Test

Recipient

Recipient Address

Add Delete

Save

Sender Address: sender's e-mail address.

Username and Password: sender's username and password.

Server Address: SMTP IP address or hostname.

Select the secure connection type at the "Secure Connection" pull-down list according to what's required.

SMTP Port: SMTP port.

Send Interval(S): time interval of sending email. For example, if it is set to 60 seconds and multiple motion detection alarms are triggered within 60 seconds, they will be considered as only one alarm event and only one email will be sent. If one motion alarm event is triggered and then another motion detection alarm event is triggered after 60 seconds, two emails will be sent. When different alarms are triggered at the same time, multiple emails will be sent separately.

Click the "Test" button to test the connection of the account.

Recipient Address: receiver's e-mail address.

3.5.10 FTP

After an FTP server is set up, captured pictures from events will be uploaded to the FTP server.

Go to Config→Network →FTP.

* If there is a signed certificate, click “Browse” to select it and then click “Install” to install it.

* Click “Create a private certificate” to enter the following creation interface.

Click the “Create” button to create a private certificate. Enter the country (only two letters available), domain (camera’s IP address/domain), validity date, password, province/state, region and so on. Then click “OK” to save the settings.

* Click “Create a certificate request” to enter into the following interface.

Click “Create” to create the certificate request. Then download the certificate request and submit it to the trusted certificate authority for signature. After receiving the signed certificate, import the certificate to the device.

3.5.12 P2P (optional)

If this function is enabled, the network camera can be quickly accessed by adding the device ID in mobile surveillance client or Comelit Advance VMS client via WAN. Enable this function by going to Config→Network→P2P interface.

3.5.13 QoS

QoS (Quality of Service) function is used to provide different quality of services for different network applications. With insufficient bandwidth, the router or switch will sort the data streams and transfer them according to their priority to solve the network delay and network congestion by using this function.

Go to Config→Network→QoS.

Video/Audio DSCP	0
Alarm DSCP	0
Manager DSCP	0

Video/Audio DSCP: the range is from 0 to 63.

Alarm DSCP: the range is from 0 to 63.

Manager DSCP: the range is from 0 to 63.

The higher the number is, the higher the priority is.

3.5.14 Wi-Fi settings

Go to Config→Network→WIFI interface as shown below.

There are two ways to connect Wi-Fi.

① Wi-Fi connection

☒ Enable

Wi-Fi Networks

Search

Index	SSID	Working Mode	Security Mode	Channel	Signal	Mbps	Connection
1	NETGEAR_MKTG_TEST	Manage	WPA2-personal	6	86	150	Unconnected
2	Alice_15011972	Manage	WPA2-personal	6	70	150	Unconnected
3	VEDO_CORSO_2.4G	Manage	WPA2-personal	3	69	150	Unconnected
4	UT Devices Test	Manage	WPA2-personal	1	69	150	Unconnected
5	SvlpTec	Manage	WPA2-personal	1	66	150	Unconnected

<

⏮ ⏪ 1 / 1 ⏩ ⏭

20

View 1 - 20 of 20

Wi-Fi

SSID

Security Mode

Key 1

Encryption Type

WPA-personal

AES

- 1. Enable Wi-Fi function and then click “Search” to search the online wireless routers.
- 2. Choose a wireless router on the list. The SSID and security mode of the wireless router will be shown automatically. **Don't change it manually!!!**
- 3. Enter the password key to connect the wireless router.

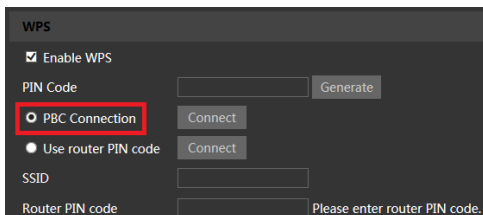
4. Choose save and unplug the network cable.

② Easy Wi-Fi Connection with WPS Function

If you enable the WPS (Wi-Fi Protected Setup) function, You don't need to configure the parameters, such as the key of the wireless connection, encryption type and so on. The WPS connection has two modes: PBC or PIN.

PBC mode:

PBC refers to the Push-Button-Configuration. You can simply push a button, either an actual or virtual one, on both the wireless router and the camera to quickly connect.



The screenshot shows a 'WPS' configuration window. At the top, 'Enable WPS' is checked. Below it, 'PIN Code' has an empty text box and a 'Generate' button. The 'PBC Connection' radio button is selected and highlighted with a red rectangle, with a 'Connect' button next to it. Below that, 'Use router PIN code' is unselected, also with a 'Connect' button. Further down are 'SSID' and 'Router PIN code' text boxes. A note at the bottom right says 'Please enter router PIN code.'

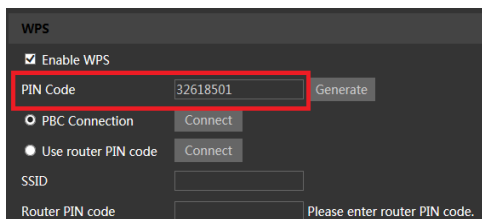
1. Enable WPS by checking “Enable WPS”.
2. Select “PBC Connection”.
3. Press the WPS button on the wireless router. If there is no such button, please go to its setting interface to enable the WPS function (please see the user manual of the router for details).
4. Press the WPS (RST) button on the camera or click “Connect” button on the above interface.

PIN Mode

PIN refers to personal identification number. If you choose this mode, you shall enter a PIN to connect the network.

You can generate the code on the camera side and then enter this code to the router.

1. Enable WPS by checking “Enable WPS”.
2. Click “Generate”.



This screenshot is similar to the previous one, but the 'PIN Code' text box now contains the value '32618501' and is highlighted with a red rectangle. The 'Generate' button is still present next to it. The other options and fields remain the same.

3. Enter the generated code to the router.

You can also use the PIN code of the router and then enter this code to the camera.

WPS

☒ Enable WPS

PIN Code

☐ PBC Connection

☒ Use router PIN code

SSID

Router PIN code Please enter router PIN code.

1. Select a wireless router on the list and the SSID is loaded automatically.
2. Enable WPS.
3. Enable “Use Router PIN Code”.
4. Enter the PIN code of the router.
5. Click “Connect”.

After the above-mentioned wireless network is configured, you can choose “Obtain an IP address automatically” or “Use the following IP address”.

LAN

☒ Obtain an IP address automatically

☐ Use the following IP address

IP Address

Subnet Mask

Gateway

Preferred DNS Server

Alternate DNS Server

3.6 Security Configuration

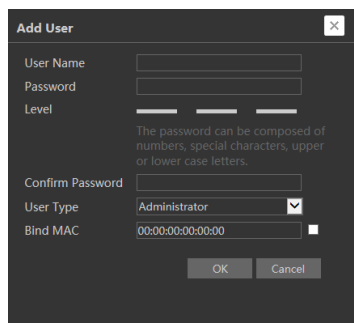
3.6.1 User configuration

Go to Config→Security→User interface as shown below.

Add Modify Delete			
Index	User Name	User Type	Bind MAC
1	admin	Administrator	

Add user:

1. Click the “Add” button to pop up the following textbox.



Add User [X]

User Name:

Password:

Level:

The password can be composed of numbers, special characters, upper or lower case letters.

Confirm Password:

User Type: Administrator [v]

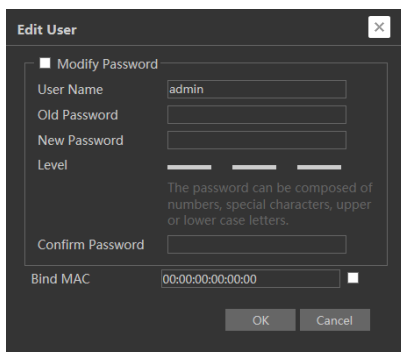
Bind MAC: 00:00:00:00:00:00 ☐

[OK] [Cancel]

2. Enter user name in “User Name” textbox.
3. Enter letters or numbers in “Password” and “Confirm Password” textbox.
4. Choose the user type. Administrator has all permissions. Normal user can only view the live video. Advanced user has the same permissions as an Administrator except for user management, backup settings, factory reset, and upgrading the firmware.
5. Enter the MAC address of the PC in “Bind MAC” textbox.
If this option is enabled, only the PC with the specified MAC address can access the camera for that user.
6. Click the “OK” button and then the new added user will be displayed in the user list.

Modify user:

1. Select a user to modify password and MAC address if necessary in the user configuration list box.
2. The “Edit user” dialog box pops up by clicking the “Modify” button.



Edit User [X]

☒ Modify Password

User Name: admin

Old Password:

New Password:

Level:

The password can be composed of numbers, special characters, upper or lower case letters.

Confirm Password:

Bind MAC: 00:00:00:00:00:00 ☐

[OK] [Cancel]

3. Enter the old password of the user in the “Old Password” text box.
4. Enter the new password in the “New password” and “Confirm Password” text box.
5. Enter computer’s MAC address as necessary.
6. Click the “OK” button to save the settings.

Note: to change the access level of a user, the user must be deleted and added again with the new access level.

Delete user:

1. Select the user to be deleted in the user configuration list box.
2. Click the “Delete” button to delete the user.

Note: the default administrator account cannot be deleted.

3.6.2 Online User

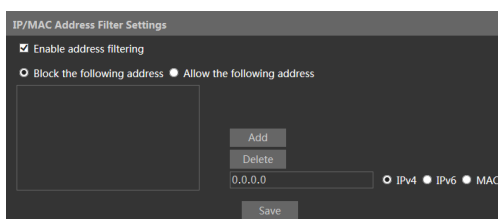
Go to Config→Security→Online User to view the user who is viewing the live video.

Index	Client Address	Port	User Name	User Type	
1	172.25.150.98	18158	admin	Administrator	Kick-off

An administrator user can kick out all the other users (including other administrators).

3.6.3 Block and Allow Lists

Go to Config→Security→Block and Allow Lists as shown below.



The dialog box titled "IP/MAC Address Filter Settings" contains a checked checkbox for "Enable address filtering". Below it are two radio buttons: "Block the following address" (selected) and "Allow the following address". A text input field is present below the radio buttons. To the right of the input field are "Add" and "Delete" buttons. Below the input field is a text box containing "0.0.0.0". To the right of this text box are three radio buttons: "IPv4" (selected), "IPv6", and "MAC". At the bottom right is a "Save" button.

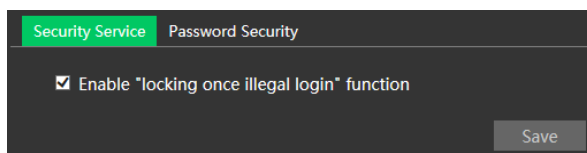
The setup steps are as follows:

Check the “Enable address filtering” check box.

Select “Block/Allow the following address”, IPv4/IPv6/MAC and then enter IP address or MAC address in the address box and click the “Add” button.

3.6.4 Security Management

Go to Config→Security→Security Management as shown below.



The dialog box titled "Security Service" has a tab labeled "Password Security". It contains a checked checkbox for "Enable 'locking once illegal login' function". At the bottom right is a "Save" button.

In order to prevent malicious password unlocking, “locking once illegal login” function can be enabled. If this function is enabled, login failure after trying six times will make the login interface locked. The camera can be logged in again after a half hour or after the camera reboots.

For some specified versions, anonymous login with a private protocol can be enabled here. If this function is enabled, enter `http://host:port/Anonymous/1[2/3]` (eg. `http://192.168.1.150:80/Anonymous/1`) via web browser to access the camera. 1 indicates main stream; 2 indicates sub stream; 3 indicates third stream. Only video can be viewed, no other operations can be done.

3.7 Maintenance configuration

3.7.1 Backup and Restore

Go to Config→Maintenance→Backup & Restore.

The screenshot shows a web interface for 'Backup and Restore' settings. It is divided into three main sections: 'Import Setting', 'Export Settings', and 'Default Settings'. The 'Import Setting' section has a 'Path' label, a text input field, and a 'Sfoglia...' (Browse) button. Below the input field is an 'Import Setting' button. The 'Export Settings' section has an 'Export Settings' button. The 'Default Settings' section has a 'Keep' label and a list of three items: 'Network Config', 'Security Configuration', and 'Image Configuration', each with a checkbox. At the bottom of this section is a 'Load Default' button.

- **Import & Export Settings**

Configuration settings of the camera can be exported from a camera into another camera.

1. Click "Browse" to select the save path for import or export information on the PC.
2. Click the "Import Setting" or "Export Setting" button.

- **Default Settings**

Click the "Load Default" button to restore all system settings to the default factory settings except those you want to keep.

3.7.2 Reboot

Go to Config→Maintenance→Reboot.

Click the "Reboot" button to reboot the device.

Timed Reboot setting

If necessary, the camera can be set up to reboot on a time interval. Enable "Time Settings", set the date and time and then click the "Save" button to save the settings.

3.7.3 Upgrade

Go to Config→Maintenance→Upgrade. In this interface, the camera firmware can be updated.

Local upgrade

Path

Browse

Upgrade

1. Click the “Browse” button to select the path of the upgrade file
2. Click the “Upgrade” button to start upgrading the firmware.
3. The device will restart automatically

Caution! Do not close the browser or disconnect the camera from the network during the upgrade.

3.7.4 Operation Log

- 4 To query and export log:
- 5 1. Go to Config→Maintenance→Operation Log.

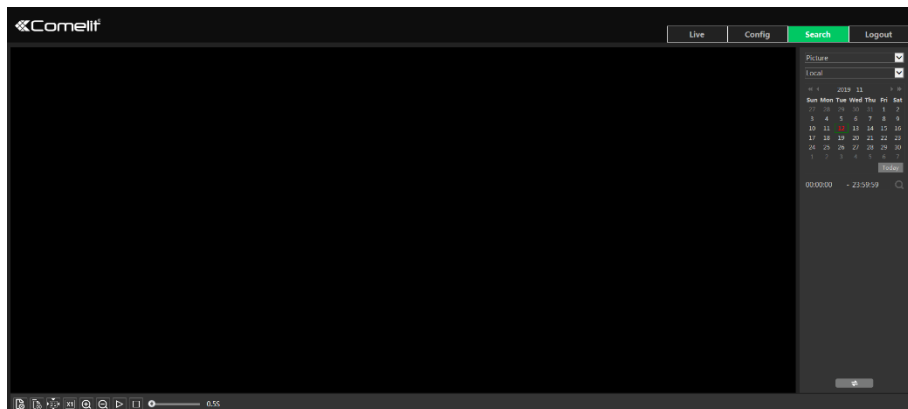
Main Type	All log	☒	Sub Type	All log	☒		
Start Time	2019-11-12 00:00:00	☐	End Time	2019-11-12 23:59:59	☐	Search	Export
Index	Time		Main Type	Sub Type		User Name	Login IP
1	2019-11-12 17:40:00		Alarm				
2	2019-11-12 17:38:46		Operation	System config modify			
3	2019-11-12 17:36:46		Alarm				

2. Select the main type, sub type, start and end time.
3. Click “Search” to view the operation log.
4. Click “Export” to export the operation log.

4 Search

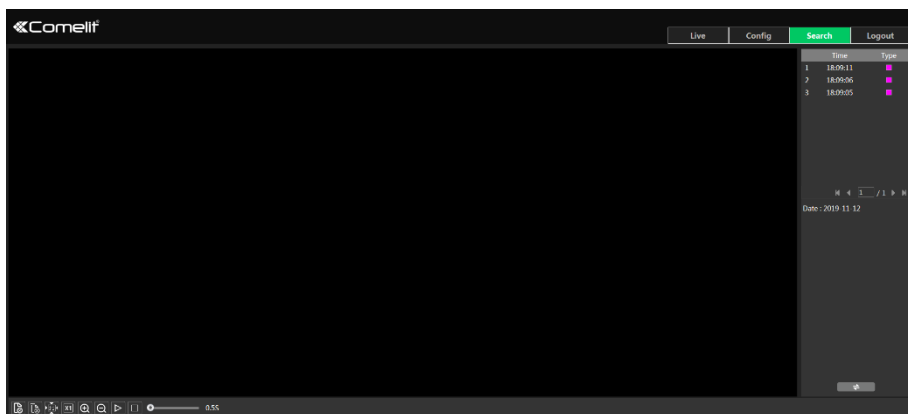
4.1 Image search

Click Search to go to the interface as shown below. The images saved on the micro-SD card can be found here.



● Local Image Search

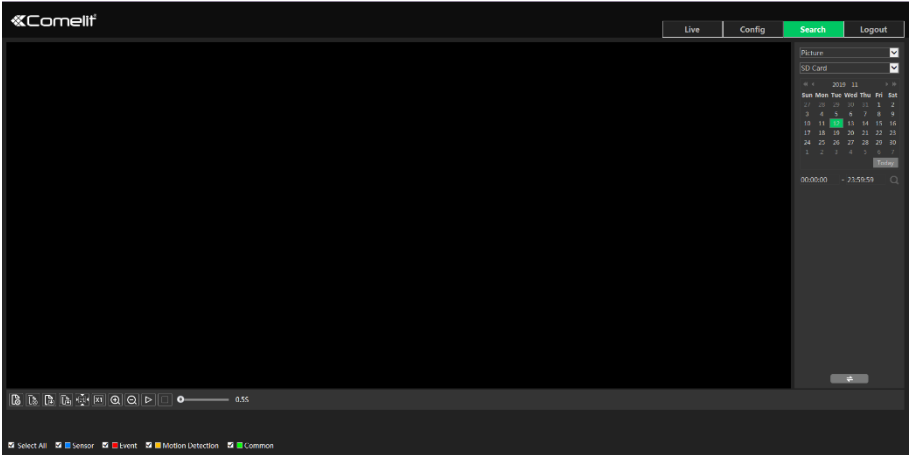
1. Choose “Picture”—“Local”.
2. Set time: select the date and choose the start and end time.
3. Click  to search the images.
4. Double click on the file name in the list to view the snapshots as shown above.



Click  to return to the previous interface.

● Micro-SD card image search

1. Choose “Picture”—“SD Card”.



2. Set time: select the date and choose the start and end time.
3. Choose the alarm events at the bottom of the interface.
4. Click  to search the images.
5. Double click on the file name in the list to view the snapshots.
- Click  to return to the previous interface.

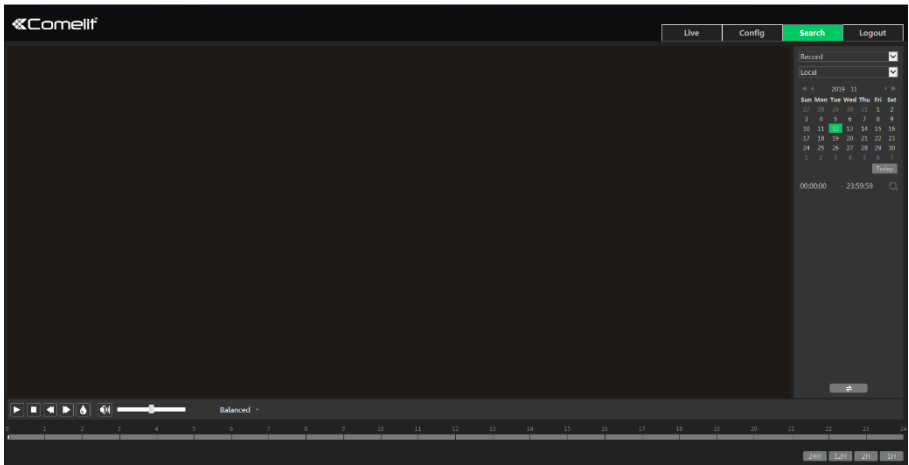
The descriptions of the buttons are shown as follows.

Icon	Description	Icon	Description
	Close: Select an image and click this button to close the image.		Close all: Click this button to close all images.
	Save: Click this button to select the path for saving the image on the PC.		Save all: Click this button to select the path for saving all pictures on the PC.
	Fit size: Click to fit the image on the screen.		Actual size: Click this button to display the actual size of the image.
	Zoom in: Click this button to digitally zoom in.		Zoom out: Click this button to digitally zoom out.
	Slide show play: Click this button to start the slide show mode.		Stop: Click this button to stop the slide show.
	Play speed: Play speed of the slide show.		

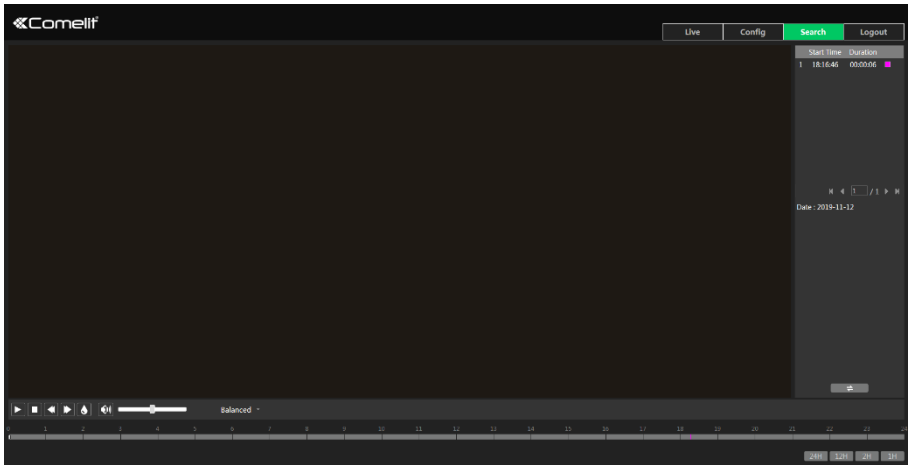
4.2 Video search

4.2.1 Local Video Search

Click Search to go to the interface as shown below. Videos were recorded locally to the PC can be played in this interface.



1. Choose “Record”—“Local”.
2. Set search time: select the date and choose the start and end time.
3. Click  to search the images.
4. Double click on a file name in the list to start playback.

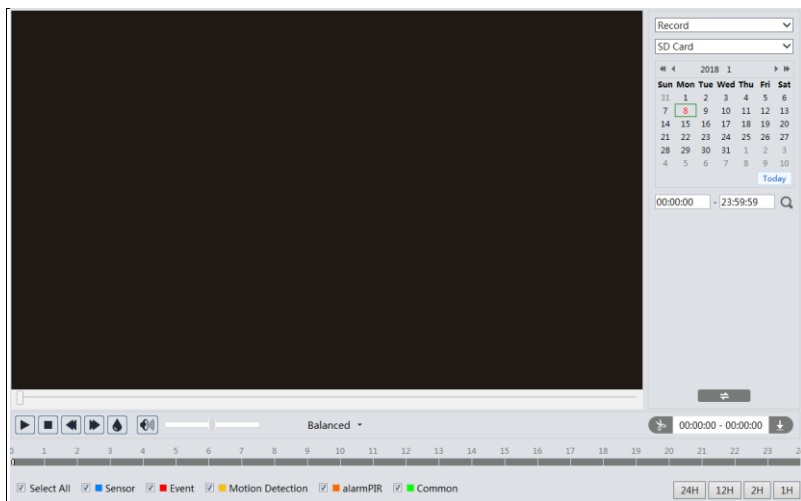


Icon	Description	Icon	Description
	Play button. After pausing the video, click this button to continue playing.		Pause button
	Stop button		Speed down
	Speed up		Watermark display
		Enable / disable audio; drag the slider to adjust the volume after enabling audio.	

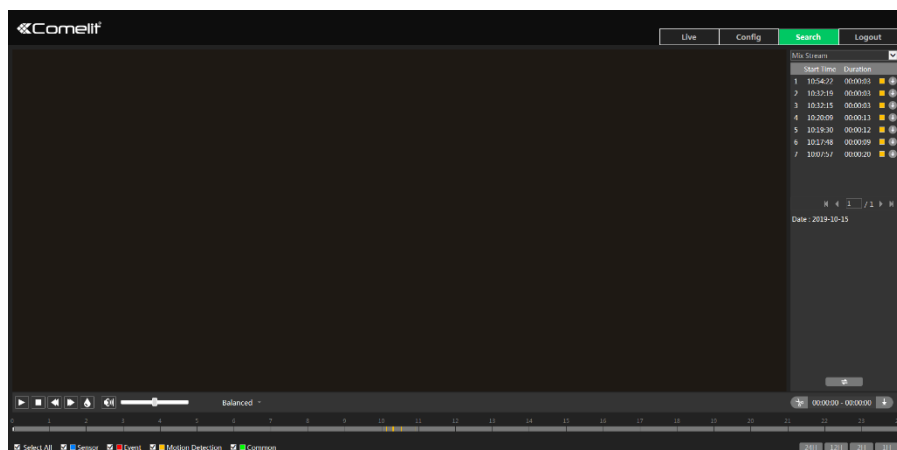
4.2.2 Micro-SD card video search

Click Search to go to the interface as shown below. Videos that were recorded on the micro-SD card can be played in this interface.

1. Choose “Record”—“SD Card”.
2. Set search time: select the date and choose the start and end time.
3. Click  to search the images.



4. Select the alarm events at the bottom of the interface.
5. Select mix stream (video and audio stream) or video stream as needed.
6. Double click on a file name in the list to start playback.



The timetable can be shown in 24h/12h/2h/1h format by clicking the corresponding buttons.

Video clip and downloading operations:

1. Search the video files according to the above mentioned steps.
2. Select the start time by clicking on the timetable.
3. Click  to set the start time and then this button turns green ().
4. Select the end time by clicking on the timetable. Then click  to set the end time.
5. Click  to download the video file in the PC.

Index	Process	Record	Start Time	End Time	Path	Operate
1	100%	Cut	2019-10-15 11:28:55	2019-10-15 11:30:24	Desktop	Cancel

Set up C:\Users\Y... \Desktop
Clear List
Close

Click “Set up” to set the storage directory of the video files.

Click “Open” to play the video.

Click “Clear List” to clear the downloading list.

Click “Close” to close the downloading window.

Appendix

Troubleshooting

Password forgot

A: Reset the device to the default factory settings.

Default IP: 192.168.1.150; Username: admin; Password: admin

Fail to connect devices through Internet Explorer browser.

A: Network is not well connected. Check the connection.

B: IP address is not available. Change the IP address.

C: Web port number has been changed: contact administrator to get the correct port number.

D: Exclude the above reasons. Restore to default setting by Comelit Advance IP Tool.

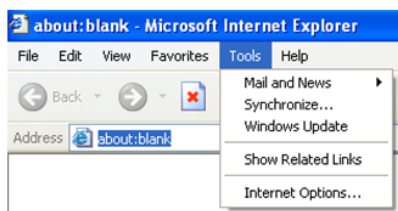
Comelit Advance IP tool cannot search devices.

The anti-virus software in your computer may cause it. Please stop it and try to search device again.

Internet Explorer cannot download ActiveX control.

A. Internet Explorer browser may be setup to block ActiveX. Follow the steps below.

① Open the browser and then click Tools → Internet Options.

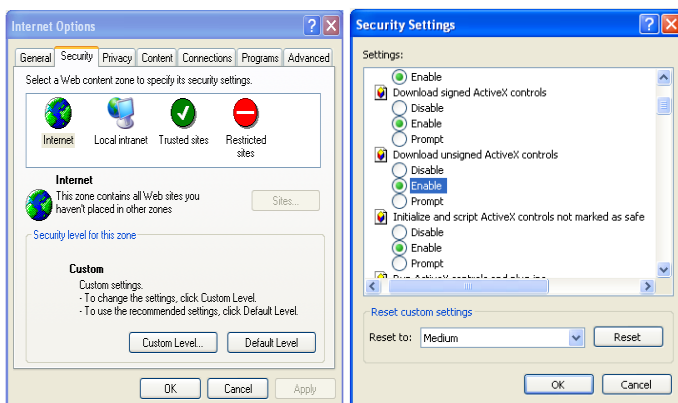


② Select Security → Custom Level....

③ Enable all the options under “ActiveX controls and plug-ins”.

④ Click OK to finish setup.

B. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or close them.



No sound can be heard.

A: Audio input device is not connected. Please connect and try again.

B: Audio function is not enabled at the corresponding channel. Please enable this function.

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