



HM SERIES User Thermal Imaging Bullet Camera Manual

www.thermeyetec.com

HM Camera User Manual

Table of Contents

HM Camera User Manual	1
1. Safety matters	- 1
2. Product introduction	2
2.1 Product description and features	2
2.2 Technical parameters	- 3
3. Product appearance dimensions and installation instructions	5
3.1 HM335 External dimensions	- 5
3.2 Installation instructions	- 5
4. Network and login configuration	6
4.1 Network configuration	. 6
5. Preview	- 8
5.1 Device Home Interface	- 8
5.2 Preview operation	8
5.3 Image adjustment	9
5.4 OSD configuration	10
5.5 Image connection	10
6. System configuration	11
6.1 System	11
6.1.1 Device Information	11
6.1.2 RS485	11
6.1.3 Time setting	12
6.1.4 Maintain	13
6.1.5 Log	13
6.1.6 User management	14
6.2 Local storage	14
6.3 Network	15
6.3.1 TCP/IP	15
6.3.2 Multicast	15
6.3.3 Port	16
6.3.4 Port Mapping	16
6.3.5 Email	17
6.3.6 FTP	18
6.3.7 White list	19
6.4 Video Configuration	19
6.4.1 Video Streaming	19
6.5 VCA	21
6.5.1 Global Settings	21
6.5.2 VCA settings	22
6.6 Image Configuration	23

6	6.6.1 Image parameter settings	23
6	6.6.2 OSD Setting	24
6	6.6.3 PIP	25
6	6.6.4 Blind element processing	25
6.7 Ev	vent	26
6	6.7.1 Alarm set	26
6	6.7.2 Fire source detection	27
6.8 St	torage	30
6	6.8.1 Schedule	30
6	6.8.2 SD card management	30

1. Safety matters

Warning

- In the process of installation and use of the equipment, the various electrical regulations of the State and the areas in use must be strictly observed.
- Please use the power adapter from a regular manufacturer. The specific requirements of the power adapter can be found in the product parameter table.
- Do not connect multiple devices to the same power adapter.

 (Exceeding the adapter load may cause excessive heat or fire)
- (Exceeding the adapter load may cause excessive heat or fire)
- Be sure to disconnect the power supply of the device during wiring, disassembly and other operations. Do not operate on a live line.
- If the device smokes, smells or makes a noise, switch off the power immediately and unplug the power cord, Get rid of it and contact our company in time.
- If the device does not work properly, please contact our company and do not disassemble or modify the integrated machine in any way.
- (The Company is not responsible for problems caused by unauthorized modifications or repairs)
- Do not aim the lens of the device at bright objects, such as the sun, or damage the thermal imaging detector.

Attention

- Avoid dropping objects on the device or strong vibration device, keep the device away from places where magnetic field interference exists.
- Avoid installing the device where the surface is prone to vibration or shock (ignoring this may damage the device).
- Do not use the device at high temperature, low temperature or high humidity. Refer to the parameter table of the device for specific temperature and humidity requirements.
- Do not place the equipment in an environment with corrosive gases, which may damage the
 equipment.
- Devices accessing the Internet may face network security problems. Please strengthen the protection of personal information and data security.
- Contact us as soon as you find potential network security hazards on your device.
- It is your responsibility to properly configure all passwords and other related product security settings, and to properly keep your username and password.
- Please keep all the original packaging materials of the equipment properly so that if problems arise, the equipment can be packed with the packaging materials and sent back to the manufacturer for disposal.
- The Company is not liable for accidental damage in transit caused by non-original packaging materials.

Quality requirements for installation and maintenance personnel

- Has the qualification certificate or experience to install and repair the video monitoring system, and has the qualification to do related work.

In addition, you must have the following knowledge and operational skills.

- Basic knowledge and installation skills of video monitoring systems and components.
- Basic knowledge and operation skills for low voltage wiring and low voltage electronic wiring.
- Has basic network security knowledge and skills, and can read this manual.

2. Product introduction

2.1 Product description and features

➤ HM series is a security bullet network camera that combines infrared thermal imaging, visible light and remote network services. It has built-in video encoding and network services, supports functions such as high temperature alarm and VCA, and has reliable and stable performance.

Product characteristics:

- Built-in embedded high performance processor chips for high efficiency, stability and reliability
- > H.264, H. 265 Efficient video compression algorithm to save bandwidth and storage
- > Supports temperature measurement and high temperature alarm programs.
- > Local storage is supported, data storage is secure and fast.
- > Support intelligent analysis, intelligent recognition of human, vehicles, board, etc.
- > Supports TCP/IP, HTTP, DDNS and other network communication protocols.
- Supports network standard Huai interface protocols such as ONVIF and PSIA.
- Support network remote upgrade for remote maintenance.
- > Support multi-level video quality configuration, encoding complexity configuration
- Supports high resolution display, and captures clear and detailed images
- Supports bispectral single IP addresses to reduce network usage.

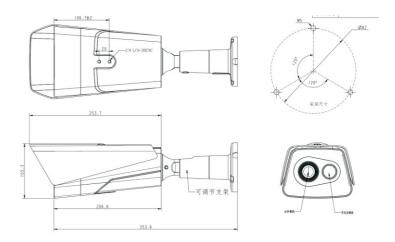
2.2 Technical parameters

	parameters		ZS-HM Series						
	Detector type		Uncooled infrared microbolometer—Vox						
	Resolution/Pi	Resolution/Pixel spacing		384x288/12µm 640x512/12µm					
	Spectral rang	Spectral range		8-14μm					
	NETD		⊴5mK						
	Focal length		7mm	10mm	17mm	25mm	35mm		
Infrared	FOV	HM3	36.4x27.7	26x19.6	15.4x11.6	10.5x7.9	7.5x5.7		
Intrared		HM6	60.7x48.5	43.3x34.	6 25.7x20.6	17.5x14	12.5x10		
	Aperture		F1.0						
	Digital zoom	3X	3X						
	Focus way		Motorized						
	Calanaslatta	~.		ttes to cho	ose from (includ	ing iron red,	rainbow,		
	Color palette		black and white, etc.), can be customized color scale						
	Image calibration	on	Automatic/ı	Automatic/manual shutter correction, background correction					
	Image noise red	luction	3DNR	3DNR					
	Image gain		IDE,HDR	IDE,HDR					
	Image device		1/2.8" Prog	ressive Sca	ın CMOS				
Visible	Focal langth		According t	o the thern	nal image lens to	match, curr	ently there		
	Focal length		are 4\8\12mm three specifications to choose						
	FOV		4mm		8mm	12mn	1		
			80x56.7		41.2x23.6	28x23	3.9		
	Aperture		F1.6						
	Focus way		Fixed						
	Resolution		4MP						
	Low illuminance		Color:0.01 Lux @(F1.5,AGC ON),						
			Black: 0.001Lux@(F1.5,AGCON)						
	IR Distance	R Distance		50m					
	Infrared algorithm		AGC、NUC、IDE、HDR、DNR						
Images	PIP		Support						
	Bi-spectrum Image Fusion		Display the details of optical channel on thermal channel						
	VCA		4 VCA types (motion detection, line crossing, area intrusion,						
	VCA		area access), up to 10 VCA rules						
Intelligent	Fire source detection		Support						
function	Thermal imaging intelligent function		Human, vehicles, vessels, animals detection						
	Temperature measurement		3 temperature measurement rule types, 30 rules in total(10 points,10 lines,10 areas)						

	Temperature range	-20°C~+150°C (-4°F~302°F)			
	Temperature accuracy	±8°C (±14.4°F)			
	Main stream (visible)	25fps (2592*1536, 1920 × 1080, 1280×720);			
Video and	Sub stream (visible)	25fps (1280*720,768*576, 640*480);			
sound	Main stream(Infrared)	25fps :(1280*720,768*576,640*480, 384x288,352*288)			
sound	Sub stream(Infrared)	25fps:(768*576,640*480,384*288,352*288)			
	Video compression standard	H.264/MJPEG/H.265			
	Protocol	IPv4,HTTP,HTTPS,FTP,DNS,NTP,RTSP,RTCP,RTP,TCP,UDP,GMP,ICMP,DHCP,ONVIF			
	API	ISAPI, SDK, Third party management platform ONVIF and CGI			
	Simultaneous live viewing	6 users			
Network	User level	Up to 10 users, 3 levels: administrator, operator, general			
	Security	Support password protection, binding MAC ID and IP filtering			
	Client	Support third-party software such as Thermtec platform and ONVIF			
	WEB browser	Google Browser			
Interface	Communication interface	RJ45 10 M/100 M Adaptive Ethernet interface			
meriace	Serial port	RS-485 1ch			
	Alarm in/out	1ch in, 1ch out			
	Web language	English			
	Power supply	DC12V			
	Power waste	15W			
Basic	Operating temperature/humidity	Temperature: -20°C ~60°C (outdoors), humidity < 90%RH			
	Wiper	Optional			
	Degree of protection	IP66			
	Size	400mm*150mm*105mm			
	Weight	<2.2kg			

3. Product appearance dimensions and installation instructions

3.1 HM335 External dimensions



3.2 Installation instructions

During the installation and fixation of the device, the cables have been combed and connected. On the premise of ensuring the correct installation of the wick, connect the power supply for power-on self-check.

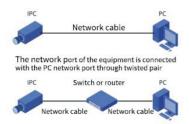
- > If the device can be turned on normally and display the screen, the installation of the device is over.
- When the device is normal, if the device cannot be turned on normally, please check whether the cable interface is connected properly; if the cable connection is normal, you need to check the cable wiring, etc. .
- It is recommended to supply power to the device nearby. If you need to extend the power supply line, please ensure that the voltage and current of the extended line can meet the power supply standard.

4. Network and login configuration

4.1 Network configuration

After the device is installed, it needs to configure the function and set the parameters. You can configure the related function through the browser. Before configuring, make sure the device is connected to the computer and can access the product you need to set up. There are two ways to connect:

The upper side is a diagram connected through a direct line, and the lower side is a diagram connected through a switch or router.



Connection diagram

The default IP address of the device is 192.168.1.128. You need to set the IP address of the computer you are operating on to the same network segment as the device before you can login and use it properly. You can access and use the device function through the browser.

To protect your privacy and corporate data and avoid network security issues with camera products, it is recommended that you set a strong password that complies with security specifications.

- > Device default IP address: 192.168.1.128
- > Device account: admin
- > Device password: admin123

Step 1 Opens the Google browser, enters the IP address of the wick in the address bar and press Enter. After successful connection, the Web displays the interface shown.



Step 2 Enter the user name and password to enter the Web operation interface (factory default

administrator user name admin, password admin123).



Step 3 After entering your password, you will jump to the video preview interface. When you enter the main interface of the device, you can click "Log Out" in the upper right corner to exit the system safely.



5. Preview

5.1 Device Home Interface



5.2 Preview operation

Click the Preview button to enter the device preview interface and do the following preview:

- > Color palette change: You can switch between nine false color pictures, and the selected false color can be clicked to save the false color state.
- > Zeroing: After clicking, the mechanical shield will move to calibrate the thermal imager. You can hear the sound of the calibration action of the mechanical shield.
- Screen segmentation: It can be divided into one picture and four pictures. Normally, it is only used to view three images, thermal image, white light and fusion image. One picture can be viewed by enlarging the selected image. Double click the image to view the selected image in full screen.
- Clear: Eliminate the dot line frame in the image, which will be used in the subsequent temperature measurement function.
- > PIP: It is used to open the picture in picture function of visible light image
- > Image fusion: Used to turn on the fusion mode of thermal image.
- > Capture: Grab a real-time preview image and keep it to the local path.
- > Record: Record the video, click again to stop recording, and the video file will be saved in the set path.
- Preview Start Stop: Click the key to open all previews of the device, and click the key again to close all previews.
- > Picture scale: It indicates that the preview screen size is 4:3 and 16:9 respectively.

5.3 Image adjustment



- > Visible light image adjustment function, which can adjust the brightness, contrast, saturation and sharpness of the visible light image browsed by the local Web terminal.
- > Thermal imaging image adjustment function, which can adjust the brightness, contrast, saturation and sharpness of the local Web browsing thermal imaging image.

Parameter	Description
Contrast	Adjust the brightness of the browsing screen
Brightness	Adjust the contrast of browsing screen
Saturation	Adjust the saturation of the browsing screen
Sharpness	Adjust the sharpness of the browsing screen
Default	Click this icon to restore the brightness, contrast, saturation and
	sharpness to the default values

Parameter	Description
Contrast	Adjust the brightness of the browsing screen
Brightness	Adjust the contrast of browsing screen
Noise filter	Adjust the browsing image to reduce noise
Enhancement	Adjust the browsing screen image enhancement
Default	Click this icon to restore the brightness, contrast, noise reduction
	and image enhancement to the default values

5.4 OSD configuration

OSD refers to the character information superimposed on the screen with video images. The content of OSD includes time customization and other information.



- The channel name can be set according to the user's needs. The display name, display date and display week can be enabled or not according to the actual needs.
- > Time format "24 hour system" and "12 hour system" are optional.
- > Multiple OSD display date formats are available
- The device supports characters superimposed on the image screen, and the content of each line shall not exceed 15 characters.
- > Input the required characters in the character content column, and save it to preview the characters displayed in the image. Drag the mouse to select the display position of the characters, and click Save to display the corresponding characters in the screen.

5.5 Image connection

There are three image connection methods: thermal imaging, visible light, and fusion image. When connecting visible light images, the main stream and the sub stream can be selected. When logging in to the preview interface, the three-channels image will be automatically connected. Clicking the image connection shortcut key will disconnect the connection. Double clicking the image shortcut key will reconnect the selected image.



6. System configuration

6.1 System

6.1.1 Device Information

In the device information configuration interface, you can view the camera's "device model", "device serial number", "software version", "WEB version" and other information. You can modify the "Device Name" of the device and click the Save button to save the settings.



6.1.2 RS485

The interface can be matched by configuring the parameters of the serial port. Baud rate: "2400" - "115200" multiple options.

Data bits: "5", "6", "7" and "8" are optional.

Check digit: "None", "Odd check" and "Even check" can be selected.

Stop bit: "1" and "2" are two options.

Decoder type and address: set according to actual needs.



6.1.3 Time setting

"Time zone" displays the time zone of the current device and can be set according to the actual situation.

The timing methods are divided into NTP timing and manual timing. NTP timing: set the NTP server address, NTP port number and timing interval, and the device can be timed every other period of time according to the settings; Manual timing: set the device time manually. When "Time synchronization with computer" is checked, the time of the device and the local PC host can be kept consistent.

Click Save after setting parameters.



6.1.4 Maintain

Device restart: click "Reboot" to restart the device.

Simple recovery: Simple recovery of device parameters means that all parameters except IP address, subnet mask and gateway are restored to factory settings.

Full recovery: full recover the camera parameters to the factory settings.

System upgrade: click Browse, select the directory where the local upgrade file is located, and then click Upgrade to start the upgrade. Please do not power off during the upgrade. The device will restart automatically after the upgrade.



6.1.5 Log

Log Search: Select the main type, sub type and query time of the log to be queried, and click Search to search for qualified log records.

Log Information: The log list displays the log information of "SN", "Time", "main Type", "Sub Type", "User name", and "Remarks".



6.1.6 User management

- ➤ When the former user is the super user "admin", other users can be created according to actual needs, up to 9 users can be created.
- > Add User: Click Add to display the Add User Interface, where you can set the user name and password. User Permissions can be used to set the basic permissions and channel permissions of the added users, and then click OK
- Modify User: select the user to modify, and click Modify to enter the Modify User Interface.
- > Users added or modified can set their Basic Permission and Channel Permission.
- > Delete User: select the user to delete and click Delete to confirm deletion.



6.2 Local storage

- > Preview capture path: the local path where the image file is stored after the preview capture.
- Video saving path: the local path where video files are saved after previewing the video.



6.3 Network

6.3.1 TCP/IP

- ➤ The "Network card type", "Device IPv4 address", "IPv4 subnet mask" and "IPv4 default gateway" can be set for the network card parameter configuration. The automatic IP address acquisition is set to ON, and the device can automatically acquire the network address and related network parameters.
- > DNS server configuration can be set to "preferred DNS server" and "alternate DNS server".

 Domain name access can be used normally only after the correct DNS address is set.
- > MAC address: display device MAC address.



6.3.2 Multicast

The video screen is previewed through the network access device. If the upper limit of the device access is exceeded, the video screen cannot be previewed. At this time, you can set the multicast IP address for the device and use the multicast protocol access method to solve the problem. Select "Enable" to enable multicast, enter the multicast address and port, and click "OK" to complete the configuration.



6.3.3 Port

Support RTSP, ONVIF and other network protocol access

The port configuration parameters can be set to "ONVIF port (default 8080)", "HTTP port (default 80)", "HTTPS port (default 443)", "RTSP port (default 554)", "TCP port (default 4321)", "Web Socket port (default 8877)"

When accessing devices through the network, you can set corresponding ports as required.



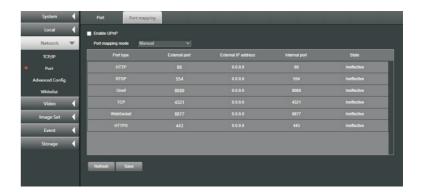
6.3.4 Port Mapping

Set "UPnP Enable" to ON, and enable the port mapping function. The port mapping methods are "Manual" and "Automatic".

In "Automatic" mode, the user does not need to modify the mapping port, and the device can automatically map the port to the public network.

In the "Manual" mode, you can manually modify the external ports to be mapped under the specified public network. You do not need to modify the port of the device itself to map the device port to the public network.

On a computer system with the UPnP protocol enabled in the same LAN broadcast domain, users can directly search the network of the system for the camera and display the model and serial number. Double click the icon, and a browser page will automatically pop up to access the current IP address of the device.



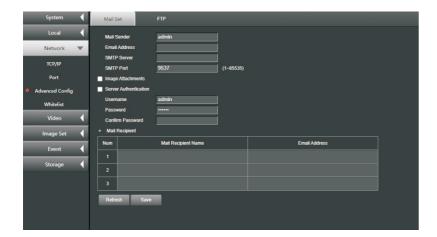
6.3.5 Email

By setting mail parameters, when an alarm occurs, you can send mail to the specified mailbox. Sender information: enter the sender's email address, SMTP server address, SMTP port number (default 9537), user name, and password.

Message encryption: SSL, TLS and no encryption can be selected.

Picture attachment: After checking, an instant snapshot will be attached to the email.

Recipient information: input the email address of the recipient, click the "Save" button to confirm the email address.

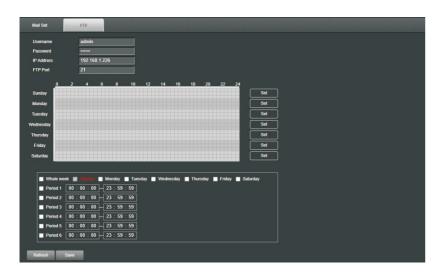


6.3.6 FTP

By configuring FTP parameters, you can realize bidirectional file transmission on a specific FTP server.

Set the address and port number of the FTP server, user name and password with upload permission, and check Set Date and Time.

After the relevant parameters are modified, click Save to save the relevant settings.



6.3.7 White list

Users can set the users allowed to access the device through IP permissions

White list: add IP/MAC of users who can log in to the device. If the user selects the white list, only the user's IP/MAC is in the list can be log in to the device; If white list is not selected, there is no restriction on users accessing this device

MAC verification takes effect only when the IP addresses of the device and PC are in the same LAN.



6.4 Video Configuration

6.4.1 Video Streaming

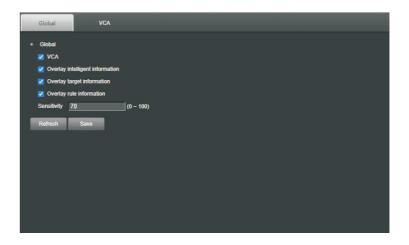
You can set the image format and stream parameters of each stream according to the support of the device, and select to open the main stream and the sub stream according to the actual needs.



- > Code Stream type: can be set to switch between visible and infrared image types
- > Video Stream type: video parameters of main stream and sub stream can be set.
- > Encode Type: H.265 and H.264 can be set. The specific encoding type is subject to the actual equipment.
- > Resolution: The required resolution size can be set according to the actual needs. The higher the resolution, the higher the requirements for network bandwidth.
- > Encode Profile: the encoding level is divided into three levels: low, medium and high. The higher the level, the better the image quality
- Video frame rate: refers to the number of frames per second of the video. It can be set according to the actual needs. The higher the frame rate, the higher the requirements for network bandwidth, and the higher the storage space required.
- ➤ I Frame Interval: refers to the number of frames between the two keyframes. The larger the I frame interval is, the smaller the rate fluctuation is, but the lower the image quality is, on the contrary, the higher the image quality is.
- > Bit rate Type: The bit rate type can be used to set the fixed bit rate, variable bit rate and average bit rate. Fixed bit rate means the transmission of the set bit rate size, which is fast in compression, but may cause video mosaic. The variable bit rate means that it changes automatically without exceeding the size of the bit rate. The compression speed is slow, but the image clarity in complex scenes is guaranteed.

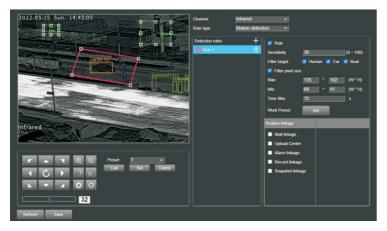
6.5 VCA

6.5.1 Global Settings



- > VCA: support a key to open or close all VCA events
- > Overlay intelligent information: overlay target identification box in the preview
- Overlay target information: overlay target type in the preview
- > Overlay rule information: overlay the event rule in the preview
- Sensitivity: The detection sensitivity of all VCA events can be configured with this option, sensitivity range is 0~100,the higher the sensitivity, the easier the target is to detect, but the false positive rate also increases. Its recommended to use the default sensitivity configuration

6.5.2 VCA settings



Through the VCA settings to configure VCA event

- > Channel:There are two channels of visible light and thermal image, and the different channel VCA events need to be configured separately;
- > Rule Type: Select the specific VCA event type, with a total of 5 VCA events, including motion detection, cross the cordon, regional intrusion, and other VCA events to choose from;
- > Detection Rules: Click '+' to add new event rules, the same event type supports up to 4 detection rules, click delete icon to delete the corresponding detection rules;
- > Rule: Event enable option, check to active the event
- ➤ Sensitivity: Each area can be set with different sensitivity, the value range of 0~100, the higher the level, the more sensitive detection;
- > Filter Target: The target alarm identification of human, vehicle, board targets can be set, the checked target will alarm after triggering the alarm event, unchecked target automatically filters out the target's detection settings that do not trigger an alarm
- > Filter pixel size: The pixel size value of the target trigger alarm can be set. When the area proportion of the target in the area exceeds the set pixel range, the alarm will be reported, that is, the maximum detection target and the minimum detection target;
- > Time filter: The interval between VCA event triggering, means between the end of event 1 and event 2 triggering;
- > Work Period: Set the alarm time period: the alarm event will be started within the set time range, there are 6 periods for setting, select the check box before the time period is valid, select the number of weeks, select the check box before the weeks, can be set separately for several days or seven days of the week.
- ➤ Alarm Linkage
- Mail linkage: The email address can be set in the network Settings, and this function can also send the information of alarm video and alarm capture to the mailbox. Before enabling this function, the Settings of alarm capture and video should be completed. When the alarm is triggered, the device will send an email to notify the user.

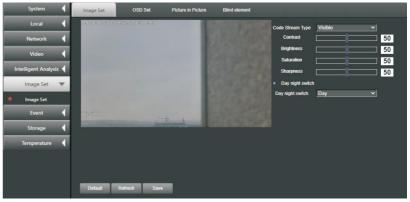
- Upload center: enable this function need to complete before the server interface Settings.
 When the alarm is triggered, the device will send alarm data information to the central server.
- Alarm linkage: local alarm linkage, when the event triggered will create a I/O signal, the related configuration please refer to 6.7.3
- 4) Record linkage: start record when the alarm triggered till the alarm finished
- 5) Snapshot linkage: capture a picture when the alarm triggered

6.6 Image Configuration

6.6.1 Image parameter settings

Set the image parameters of different scenes according to the preview screen currently played by the device, so as to meet the needs of image effects in different scenes.

- > Visible light image adjustment: "brightness", "contrast", "saturation" and "sharpness" of the camera can be adjusted according to the image effect
- Day night switching of visible light: "day", "night", "automatic" and "regular switching" can be selected.
- > Daytime mode: the image is in color.
- > Night mode: the image is black and white.
- > Timed switching mode: the user needs to set the start time and end time of the day. During this period, the device will automatically use the day mode, and outside this period, the device will automatically use the night mode.



Thermal image adjustment: "brightness", "contrast", "image noise reduction" and "image enhancement" of the camera can be adjusted according to the image effect

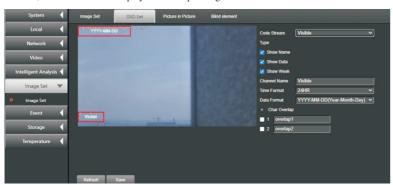


6.6.2 OSD Setting

OSD is the character information overlay on the screen with the video image. OSD content includes time customization and other information.

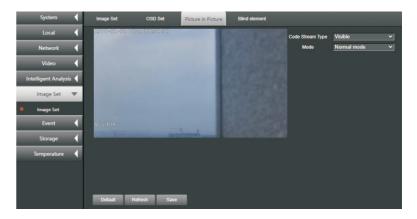
- > Channel: can be set to switch between visible and infrared image types
- > The channel name can be set according to the user's needs. The display name, display date and display week can be enabled or not according to the actual needs.
- ➤ The time format can be "24-hour" or "12 hour".
- > Various OSD display date formats are available
- > The device supports characters superimposed on the image screen, and can support up to 3 lines of characters superimposed content, with each line of content no more than 15 characters.

Enter the required characters in the character content column. After saving, the entered characters will be displayed in the preview image. Drag the mouse to select the display position of the characters, and click Save to display the corresponding characters in the screen.



6.6.3 PIP

The visible light is selected as the image type. Under the visible light option, there will be a normal mode and a picture in picture mode. After the picture in picture mode is selected, a small infrared image box will appear in the visible light image. After it is successfully opened, it can normally display the visible light hot image that can be painted in picture.



6.6.4 Blind element processing

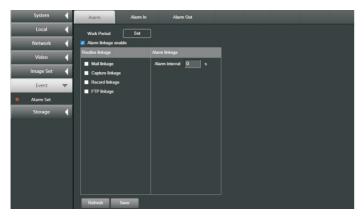
Open blind element processing through the menu to check the changes of image display. If there are spot, spot or linear blind elements in the image, use the direction keys to control the place where blind element processing is required, and click the blind element processing to eliminate it. If there are too many spots in the image, you can also select automatic blind element processing. After the blind element processing operation is completed, click the Save button.



6.7 Event

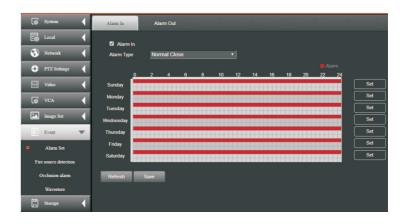
6.7.1 Alarm set

Alarm reporting can be realized through alarm settings. Triggered alarms can be linked to certain or several types of actions by configuring linkage actions of other devices, so that users can timely handle alarms and their corresponding linkage actions. Linkage methods include mail linkage, picture capture linkage, video linkage, FTP linkage. In addition, alarm interval and working time can be set.



> Alarm input

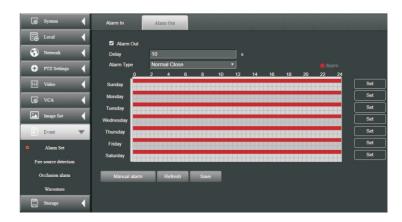
Check to enable the alarm input linkage function. The alarm type can be set as normally open and normally closed. Click Edit to edit the deployment time. You can set the deployment of the whole week or one day of a week, and you can set the start time and end time of six time periods for a day in detail.



> Alarm output

Check to enable the alarm output linkage function. The alarm type can be set as normally open or normally closed. Select the alarm delay time. The alarm delay time represents the duration after the alarm is triggered. It can be set between 5 seconds and 10 minutes, or it can be set manually to close the alarm manually. The alarm state cannot be set.

Click Edit to edit the deployment time. You can set the deployment of the whole week or one day of a week, and you can set the start time and end time of six time periods for a day in detail.



6.7.2 Fire source detection

> Fire point detection

When the device detects a fire source, it will display screens, link alarms and upload alarm information according to the configured strategy. The fire source detection can be used together

by adjusting the sensitivity, which can improve the accuracy of detection and linkage, and is suitable for fire prevention environments such as indoors, scenic spots, forests, and tunnels.

Fire source detection can be applied outdoors and indoors. The monitoring range depends on the size of the infrared lens. Currently, the largest lens is a 35mm infrared lens. In order to achieve the best detection effect, please select according to the following requirements point.

- The selected installation point must be the commanding height within the detection range.
- Try to choose a location with convenient transportation and complete basic power supply and network facilities, such as communication signal towers, watchtowers, and the tops of high-rise buildings.
- > Fire source detection settings

To reduce potential fire source security risks, configure the fire detection function in areas where fire sources may exist. This parameter is used to detect whether there is a fire point in the scenario.



- 1) On the Fire Detection screen, you can set the option of enabling thermal imaging fire point detection;
 - 2) Select Fire Detection to enable the fire detection function;
 - 3) Select the corresponding fire point detection option;
 - 4) Set the event sensitivity;
- ◆ Sensitivity: The value ranges from 0 to 100. The higher the sensitivity, the easier it is to detect suspicious ignition points. However, the false alarm rate is higher
- ◆ Work period: Edit the event deployment time.
- Shielding area: check the shielding area.
- Click Add drawing area, click the end points of the polygon area in turn in the live screen, and then click the left button of the mouse to complete the drawing, forming a closed area, and click Save after drawing.
 - 2. Click Clear All to clear the mapped mask area.
 - 3. Click the drawn area and adjust the mask area parameters.
 - 4. Click the area title to modify the title displayed in the masked area.

- 5. Shielding ratio: The shielding area can be adjusted according to the magnification of the lens. The default value is 1, which cannot be changed (this device does not have the function of magnification for the time being).
- 6. Optional operations: You can set multiple masking zones using the preceding method. Set the masking zones based on site requirements.
 - 7. Click Save.
- Routine Linkage: The related event can set as linkage alarm, the details please refer to the 6.5.2 linkage alarm.
- > Smoking detection

In order to reduce fire safety risks, the smoking detection function is set up in areas where fire sources may exist. This parameter is used to detect smoking in the scene.



- 1) Select smoking detection from mode option
- 2) Smoking detection parameters settings
- ◆ Sensitivity: The value ranges from 0 to 100. The higher the sensitivity, the easier it is to detect suspicious ignition points. However, the false alarm rate is higher
- Work period: Edit the event deployment time.
- Shielding area: check the shielding area.
- 1. Click Add drawing area, click the end points of the polygon area in turn in the live screen, and then click the left button of the mouse to complete the drawing, forming a closed area, and click Save after drawing.
 - 2. Click Clear All to clear the mapped mask area.
 - 3. Click the drawn area and adjust the mask area parameters.
 - 4. Click the area title to modify the title displayed in the masked area.
- 5. Shielding ratio: The shielding area can be adjusted according to the magnification of the lens. The default value is 1, which cannot be changed (this device does not have the function of magnification for the time being).

- 6. Optional operations: You can set multiple masking zones using the preceding method. Set the masking zones based on site requirements.
 - 7. Click Save.
- Routine Linkage: The related event can set as linkage alarm, the details please refer to the 6.5.2 linkage alarm.

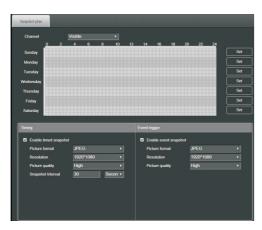
6.8 Storage

6.8.1 Schedule

Edit the video deployment time. Select the required video type(timing or event trigger), set the deployment of the whole week or one day of a week, and you can set the start time and end time of six time periods for a day in detail. In addition, you can set the time interval of the video package (1-60 minutes).

② Snapshot Plan

Set the capture of visible and thermal images respectively, and configure the corresponding defense time and capture mode, which can be divided into timing snapshot and event-triggered snapshot (check the snapshot linkage for corresponding events).



6.8.2 SD card management

- SD card management is used to view the capacity and status of the storage device, and can format the storage device.
- > SD card information displays the configured information, including total capacity, remaining space, used space, and status.
- > Tick the detected SD card and click "Format". When the SD card status changes from "Unformatted" to "Normal", it can be used normally.
- > Click Save after settings finished.