Active Silicon

Harrier 52x Autofocus-Zoom **IP** Camera (H.264/H.265)

AS-CAM-52IPHD-A

Technical Reference Manual

Edition: v1.2

Issued Date: 24 July 2024

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Safety Instructions

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Make sure the power supply voltage is correct before using.
- Do not drop the block camera or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid installation on vibrations surface or places subject to shock (ignorance can cause device damage).
- Do not touch senor modules with fingers. If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the block camera will not be used for an extended period, replace the lens cap to protect the sensor from dirt.
- Do not aim the block camera at the sun or extra bright places. Blooming or smearing may occur otherwise (which is not a malfunction), and affect the endurance of sensor at the same time.
- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.
- Do not place the block camera in extremely hot, cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.
- Keep the block camera away from liquid while in use.
- While in delivery, the block cameras shall be packed in its original packing, or packing of the same type.

Maintenance

If the product does not work as expected please contact Active Silicon.

Never attempt to disassemble the block camera yourself as this will invalidate the warranty. Active Silicon shall not assume any responsibility for problems caused by unauthorized repair or maintenance.

Feature	AS-CAM-52IPHD-A			
	Sensor	1/2" Progressive	Sony IMX385 CMOS	
	Focal Length	5.7 ~296.4mm, 5	52x optical	
	Aperture Range	F1.4~F4.5		
	Shutter	1/25~1/100000		
Ontion	FOV	65.3°~1.5° (Wide	e~Tele)	
Optical	Min. Distance	10mm-2000mm	(Wide~Tele)	
	AF Speed	10s Optical Lens	s, (Wide~Tele)	
	D/N Shift	ICR, Auto, Color	, White/Black	
	Scanning	Progressive Sca	nning	
	Illumination	0.002Lux @ (F1.5, AGC ON) color, 0.0002Lux @ (F1.5, AGC ON) B/W		
		Main Stream	1920 x 1080 - 30/25 fps, 1280 x 720 - 30/25 fps	
	Resolution	Sub Stream	720 x 576 - 30/25 fps, 352 x 288 - 30/25 fps	
		3rd Stream	720 x 576 - 30/25 fps, 352 x 288 - 30/25 fps	
	Digital Zoom	16x		
	Lens Initialization	Built-in shutter priority		
Image	Focus Mode	Auto/Manual/Semi-Auto/One Time Focus (Auto Mode)		
- J	Image Adjustment	Saturation, Brigh	tness, Contrast, Sharpness, Hue Adjustment	
	Image Setting	Privacy Mask, Anti Flicker, Defog, Corridor Mode, Mirror, Rotate, BLC, HLC, Defect Point Compensation, Watch mode, Power off Memory, Distortion Correction. 3D Positioning		
	WDR	(Wide Dynamic Range) 120db		
	ROI	(Region of intere	st) 4 regions	
Smart Function	Function	Area intrusion, Line crossing, Audio detection		
	Smart Alarm	Motion Detection, Tampering, Off-Line, IP Conflict, HDD Full		
Eurotion	General	Triple Stream, H Card, Off Line Ti	eartbeat, Password Protection, Black/White List, TF ansfer, Max. 20ch Preview	
Function	Storage	Built-In Micro SE), up to 256GB (class 10)	
	Protocol	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP , PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,QoS, RTMP,IPV6,MTU		
	Compatibility	ONVIF2.4, Http I	Protocol, HIK/DAHUA Protocol	
	Video Compression	H.264/H.265, Ba	seline, Main Profile, High Profile, MJPEG	
Network	Video Bit Rate	64 Kbps~16Mbp	S	
	Audio Compression	G.711A, G.711U	, G.726, AAC	
	Audio Bit Rate	8/16Kbps		

		RJ45 10M/100M LAN self-adaptive Ethernet port, 1ch
		Network indicator, 1ch
		RS485, 1ch
		RS232, 1ch
		CVBS, 1ch
		Alarm in, 1ch
Interface	30-way FFC/FFC	Alarm out, 1ch
		Audio in, 1ch
Extensior		Audio out, 1ch
		Power, 1ch
		SD card socket, 1ch
		Reset, 1ch
	Extension Port	USB, 1ch
	Communication	RS232 (VISCA), RS485 (Pelco)
	Working Temp.	-10°C~60°C
	Working Humidity	≤95% (non-condensing)
Other	Power	DC12V±10%
	Power Consumption	~3 -5.5W
	Dimensions	177.5 x 71.8 x 78 mm
	Weight	930g

Connecting to the Camera

Download and install the <u>ONVIF Device Manager</u> from <u>https://sourceforge.net/projects/onvifdm/</u> This program can be used to identify the IP address of the camera (e.g. 192.168.1.108).

Streaming (H.264) video can be displayed in the ONVIF device manager or a media player that can display RTSP streams. E.g. GStreamer or VLC media player. For VLC media player (H.265): Select the Media menu, select Open Network Stream. In the Open Media dialog, enter:

rtsp://192.168.1.108:554/type=0&id=1.

Click the Play button.

Connectors

J2					
Pin No.	Name	Level	Pin No.	Name	Level
1	12V		21	GND	
2	12V		22	SD_EN	
3	12V		23	SD1_WP	
4	GND		24	SD1_CD	
5	GND		25	SD_CLK	
6	RESERVED		26	SD_CMD	
7	GND		27	SD_DATA3	
8	AUDIO_LINE_OUT		28	SD_DATA2	
9	GND		29	SD_DATA1	
10	AUDIO_LINE_IN		30	SD_DATA0	
11	NC		31	GND	
12	ETH_TX+		32	RS-485_B (-)	
13	ETH_TX-		33	RS_485_A (+)	
14	ETH_RX+		34	UART_TX	
15	ETH_RX-		35	UART_RX	
16	GND		36	RESET	
17	LINK_LED				
18	ACT_LED				
19	ALARM_OUT				
20	ALARM_IN				
Ref.		36-Wa	ay FFC 0.5	5mm pitch	

Evaluation Board Connectors



Figure 1. Block diagram of the Harrier 23x/52x IP Camera Evaluation Board

J2 – Ethernet			
Pin No.	Name	Pin No.	Name
1	TX+	5	NC
2	TX -	6	RX -
3	RX+	7	NC
4	NC	8	NC

J4 – I/O Block				
Pin No.	Name	Pin No.	Name	
1	Line In	9	Line In	
2	Line Out	10	Line Out	
3	GND	11	GND	
4	RS-485-A	12	RS-485-A	
5	RS-485-B	13	RS-485-B	
6	Alarm In 1	14	Alarm In 1	
7	Alarm Out NO	15	Alarm Out NO	
8	Alarm Out NC	16	Alarm Out COM	

J6 – UART		
Pin No.	Name	
1	GND	
2	UART2_RXD	
3	UART2_TXD	

6

Acessing the Camera Demo Web Pages

Steps:

- 1. Power on the camera and connect the camera to the network.
- 2. Open the Microsoft Edge web browser (IE mode may be required).

3. In the address field, input the IP address of the network camera, e.g., 192.168.1.108 and press the Enter key to enter the login interface.

- 4. The default IP address of the camera is 192.168.1.108.
- 5. Select English as the interface language on the bottom-right of login interface
- 6. Install the plug-in before viewing the live video and operating the camera.
- Follow the installation prompts to install the plug-in.
- 7. Enter the username and password and confirm the login.

Note: The administrator should configure appropriate accounts and not leave the default values set.

Caution Please follow the installation prompts to install the plug-in.

Web S	erver
User Name	admin
Password	•••••
Language	English 🔽
	🖌 Remember 🗌 Extrar et Plug-in Download
	Login Cancel

Caution You may have to close the web browser to install the plug-in. Reopen the web browser and log in again after installing the plug-in.

Default username: admin

Default password: 123456

User Name	admin
Password	•••••
Language	English 🔽
	🖌 Remember 📃 Extranet Plug-in Downloa

Changing the Password

For your privacy and to protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product. Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user

Password	modification	ж
A New Password Confirm password	Currently the initial password, it is recommended to change its password! 	
	ок са	ancel
_	Login Cancel	

Password	modi	×	×
A New Password Confirm password	Cur recc ••• •••	Success!	is sword!
		Continue	OK Cancel

Basic Demo Web Page Operation

In this and the following chapters, operation of the block camera by the web browser will be described.



Figure 2. Camera Web Server Live Page

Live View Parameters

LOGO	Description	
Current User : admin Logout	Login	
Pan/Tilt/Zoom →	PTZ Control	
Image Setting +	Image Setting	
Alarm Info 🔶	Alarm Info	
Live: Shorter Dela	Latency	
No operation 🗸		
Region Zoon 🗸	Regional Zoom	
Quick PTZ	Quick PTZ	
Zone Focusi	Zone Focus	
Main Stream	Main Stream Live View	
Second Stream	Second Stream Live View	
Third Stream	Third Stream Live View	
-	1:1 Display	
Ĩ,	Local Record	
0	Local Snapshot	
0	IPC Snapshot	
0	Audio Detect	
.	Intercom	
	Stop Live View	
	Full Screen	

PTZ Control Panel

PTZ Control: Panning, tilting, focusing and zooming actions of the network. The lighter, wiper, one-touch focus and lens initialization control.

Preset/patrol/pattern: Set and call the preset/patrol/pattern for the camera. PTZ Control Panel



Figure 3. PTZ control panel



/ - Focus near/far

/ C: Iris Close/Open

Step: Control by Clicking on -/+ (Adjust speed of pan/tilt movements)

Setting a Preset: In the PTZ control panel, Input a preset number from 1-255, Click to add a Preset, then click real to call the PTZ to the Preset, Delete the Preset by clicking on real.

PTZ menu^{Patrol} Patrol/Line Scan/Pattern/Preset/Auto Pan/Aux In the PTZ control panel, input a defined preset/pattern. "Open""Close" : Turn ON/OFF function.

1) PTZ Setting

TZ Setting-C	hannel1			ł
Line Scan 🦱	Pattern Prese	t Patrol		
Line Scan:		Left	Right	
Refresh				

Figure 4. PTZ Setting Menu

2) Line Scan



Figure 5. Line Scan. Setting the Left and Right boundary

3) Pattern



Figure 6. Pattern

4) Preset

Line Scan Pattern Preset	Patrol
Preset 1 🔽 Name 1	Add Delete Clear
Preset	Name
Refresh	

Figure 7. Preset: You can configure up to 255 presets

5)Patrol

Line Scan Patt	ern Preset	Patrol
Patrol 1 🔽 Preset 🗹	Delete Stay Time(s) 1	Add Delete
Preset	Name	Stay Time(s)
Rofroch		



OSD Setting



Figure 9. Image Setting

Alarm Info



Figure 10. Alarm Info

Playback

Purpose:

This section explains how to view the video files stored in the network disks or SD memory card.



Figure 11. Playback

Description of the buttons:

Logo	Description		
*	The window size is 1:1		
Ĭ.	Local Recording		
ō	Local Snapshot		
Ō	IPC Snapshot		
0	Audio Recording		
	Play		
	Speed Down		
	Speed Up		
	Full Screen		

Drag the progress bar at the bottom of the screen with the mouse to locate the exact playback point.

The different colors of the video on the progress bar stand for the different video types
Search by Date

Query Date -						
0	December 2015 0				0	
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Figure 12. Query Date

Search Video

Query	Terms	M
Dogint	2015-12-21	
Degin.	00 \$: 00 \$: 00 \$	
End	2015-12-21	
Enu-	23 💠 : 59 💠 : 59 💠	
Total:	0	
O Vid	eo 🕥 Picture All 🛛 📉	1
0	Query List	
Log	cal Rec Local Pic	

Figure 13. Query Terms

Choose the file paths locally for downloaded playback video files and pictures in Local Configuration interface.

Recording Status

Status Information	10
Date: 2015-12-21	
Speed: × 0	
00 \$:00 \$ [\$	
Q	

Figure 14. Status Information

Input the time and click to locate the playback point in the Set playback time field. You can also click to zoom out/in the progress bar.

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Camera Settings

Click Settings to enter the Configuration Interface

Web Server			Current User : admin Logout
Preview	Playback	Settings	
Information	-		
Version	_	Sarial Number	60304530075
Disk Information			
System Settings	*	MAC	eeu-t//silizione
Storage Settings		Alarm in	
Alarm Settings	*	Alarm Out	
Log Settings Local Settings		Cvbs Out	
		Audio In	
		Audio Out	
		Firmware Version	IPC5610-1-2.13.10.0.R4112
		Hardware Version	
		Web Version	
		Plug-in Version	
		Building Time	
		State	Activated
Alarm Info			

Figure 15. Settings tab

The configuration interface functions are as follows:

System Information

Information	
Version	
Operation Maintenance Info	
Disk Information	

Figure 16. System information

1 "Version information"

Serial Number	60947071738
MAC	ce:30:ba:82:fa:0e
Alarm In	1
Alarm Out	1
Cvbs Out	1
Audio In	1
Audio Out	1
Product Type	IPZM-9220C-L
Product Type Firmware Version	IPZM-9220C-L 2.19.5.0.R21451.inner1.
Product Type Firmware Version Hardware Version	IPZM-9220C-L 2.19.5.0.R21451.inner1. 1.1
Product Type Firmware Version Hardware Version Web Version	IPZM-9220C-L 2.19.5.0.R21451.inner1. 1.1 2.0
Product Type Firmware Version Hardware Version Web Version Plug-in Version	IPZM-9220C-L 2.19.5.0.R21451.inner1. 1.1 2.0 1.0.74.0
Product Type Firmware Version Hardware Version Web Version Plug-in Version Building Time	IPZM-9220C-L 2.19.5.0.R21451.inner1. 1.1 2.0 1.0.74.0 2019-08-24 10:01:08

Figure 17. Version information

View the device's "serial number, MAC, product type, software version, hardware version, WEB version, control version, compilation date, activation status" and other information.

2 "Operation and maintenance information":



Figure 18. Version information

View CPU utilization and memory utilization.

3 "Hard disk information" :

Disk Information						
Disk No.	Physical No.	Disk Group	State	Attribute	Free	Total
Refresh						



View "hard disk serial number", "physical serial number", "disk group", "hard disk status", "properties", "residual capacity", "total capacity", and refresh status information.

System Setup

System Settings 🔹 🔻
General Settings
Encode Setting
Image Settings
User Manager
PTZ Settings
Snap Settings
System Maintenance

Figure 20. System setup



Figure 21. General setting

6

General setting

"Date Settings" can set "year", "month", "day", "time", "minute" and "second" separately. Synchronized PC: Time synchronization with PC terminal.

"Automatic Synchronization": Automatically synchronize with PC after selecting.

"Save time": After setting up, click Save, it will pop up and save successfully.

Refresh: Click to refresh the display.

"Summer saving time": Check and set menu, set parameters according to demand, can set "week" or "date".

"Date format": According to the needs of the sort of year, month and day set, can choose "year, month, day and year", "day, month and year". "Delimiter": Set according to the requirement. Optional". "," -","/".

"Time zone": Set up 12 hours and 24 hours display according to requirement.

"Time zone": Set up according to requirements.

"Storage device full time": according to the needs of settings, optional "coverage" or "stop".

"Language": Set up according to the requirement, choose "Simplified Chinese" or "English".

"Video format": Depending on the requirements, choose "PAL" or "NTSC"

"Local Number": Local Number Display.

"Save": After setting up, click Save, it will pop up and save successfully.

Refresh: Click to refresh the display.



Encoding setting



"Coding mode": Select H265, H264 and MJPEG according to requirements. (The main stream is H265 and H264 only)

"Coding Level": Set up High Profile, Main Profile and Baseline Profile according to requirements.

"Encoding Enables": Video default check, according to the needs of audio enable check. "Resolution": Choose according to demand. The main stream can choose "2592*1520

(unsupported), 2304*1296 (unsupported), 1920*1080" and "1280*720"; the auxiliary stream can choose "720*576" and "352*288"; the third stream can choose "720*576" and "352*288". "Frame Rate": Set PAL (1-25 FPS) and NTSC (1-30 FPS) according to requirements.

"Bit Rate Value": Set according to requirements (with 10 fixed values and custom settings). "Bit Rate control": Settings according to requirements (with limited and variable bit stream settings).

"I Frame Interval": Set up according to requirement (1-100).

"Bit Rate Smoothing": Settings (0-100) according to requirements (if there is breathing effect in the image).

"Input volume": Adjust audio input sound (0-100) according to demand.

"Output volume": adjust the audio output sound (0-100) according to the demand.

"H264+/H265+" : Widening the I frame interval and increasing the virtual I frame to ensure the smoothness of the picture in the same bit rate.

"SVC": SVC configuration can choose "1", "2" and "4" times; Scalable Video Coding (adaptive video coding or scalable video coding) intelligent adjustment mode for increasing frame hopping logic. (Not supported)

"Save": After setting up, click Save, it will pop up and save successfully.

Refresh: Click to refresh the display.

Audio setting

Туре	G711A	~
Sample Rate	8000	~
Sample Depth	16	~
Save	Refresh	3

Figure 23. Audio settings

"Coding mode": Set the audio coding mode, choose "G711A", "AAC", "G711U", "G726"

"Sampling Rate": Sampling Rate of Audio (each encoding mode corresponds to a sampling rate).

"Sampling depth": The sampling depth of audio (each coding mode corresponds to a sampling depth).

Image setting

1

OSD setting

6

Web Server				
Preview Playback	Settings	Smart		
Setups Guide +				
Information +				
Version				OSD Cover Image ROI Superposition
Operation Maintenance Info	1		2019-08-27 48:17:83	Title 🗸
Disk Information	20		ALC: NOT THE OWNER OF	Channel name 通道一
System Settings *	1222			Time 🗾 Week 📕
General Settings	10000			Anticolor 🗸
Encode Setting			ALC: NO. OF THE OWNER, NAME	Font Size 2
Audio setup	10000			Multiple Title Replace Character(%s)
Image Setting				Align Align Right 🔽
User Manager	Contraction of the			1:
User Activite	1.000			2:
PTZ Settings	1010 -			3:
Snap Settings	Contraction of the second seco			4:
System Maintenance				
Serial port setting				Save

Figure 24. Image setting

OSD	Cover	Image	ROI
Title 🔽			
Channel name 通道	<u>i</u> —		
Time 🖌 🛛 Week 🔲			
Anticolor 🗹			
Font Size 2	~		
Multiple Title Replace	Character(%s)		
Align Align Right	V		
¥ 1:			
2:			
⊻ 3:			
¥ 4:			
5:			
Save			

Figure 25. OSD setting

"Preview Interface": After saving the parameter settings, you can see the effect.

"Display Name": Enabling Check of Display Name.

"Channel Name": Set up according to requirements.

"Display Date": Enabling Check of Display Date.

"Show Week": Enabling Check of Show Date.

"OSD Anti-color": Turn on and off OSD Anti-color function.

"Font Size": Set fonts 1, 2 and 3 as required.

"Text Edge Description": Open Red Edge Description for Web Preview Text Channel name CAM 1 (not supported)

"Display multiple lines": Enable selected and sets 1-5 lines separately according to requirements.

Alignment: alignment of multiple lines according to requirements.

"Save": After setting up, click Save, it will pop up and save successfully.

2) Area Mask

	OSD	Cover	Image	ROI
2003-01-01 00:08:32	* Drag Box to Add	Area		
	Clear All			
	Delete			
	Save			
CPM 1				

Figure 26. Privacy Mask

"Preview Interface": After saving the parameter settings, you can see the effect.

"Drag box selection to add area" : Select the area in the preview interface, and corresponding and black will appear.

Clear All: All settings are cleared.

"Delete the selected area": Delete the selected area pertinently.

"Save": After setting up, click Save, it will pop up and save successfully.

3) Image parameter



Figure 27. Image setting

"Preview Interface": After setting parameters, you can see the effect.

[General Configuration]:

^ General Config	
Distortion correction	AUTO 🔽
Shadow Correction	AUTO 🔽
Intensity Value	∃ € 50
Electronic Anti Shake	OFF 🔽
Image Style	Outdoor 🔽
	Mirror 🔲 Flip
	Corridor pattern(*Need Reboot)

Figure 28. General configuration

"Distortion Correction": Closing, Manual Options. "Strength Value": Use with manual option of distortion correction (0-100)

"Electronic Anti Shake, ": Closing and Automation Options, "Strength Value": Use with Electronic Anti-shake Automation Options (0-100).

"Image Style": Standard outdoor choice.

"Mirror": Settings can be checked to switch the symmetrical display direction of the video screen.

"Flip" : " Check the settings. Video coding will rotate 90 degrees counterclockwise..

"Corridor mode": Check the settings to switch the display proportion of the video, such as the 16:9 corridor mode after switching to 9:16.

[Day/Night Shift]:

^ Day/Night Switch		
Color Mode	Auto	~
Switching Basis	UART trigger	~
Reverse selection	IRCUT Reverse	
	Trigger inversion	

Figure 29. Day/Night Shift

"Color mode": automatic, daytime, night etc.

"Switching Basis": Photoresistor (not supported), image algorithm, time period selection, external trigger, alarm input trigger, serial trigger.

"Switching threshold": daytime switching threshold, high numerical setting, the camera needs a higher brightness to switch from night mode to daytime mode, low numerical setting, the camera only needs a slightly lower brightness to switch from night mode to daytime mode; night switching threshold, the same reason as daytime switching threshold.

"Time Delay": Waiting time delayed response after day and night switching, can be set according to demand.

"Inversion Selection": IRCUT Inversion: Forced switching of filters, triggering inversion: Reversion of the current state, you can check settings according to needs.

[Focus Settings]:

 Focus Settings 		
Focus Mode	Manual	~
Near Limit	3m	~
Maximum Zoom Ratio	20	$\mathbf{\sim}$
Display Zoom Ratio	Auto	~
Zoom Ratio Recovery	⊻	
Initialize Lens	Trigger	

Figure 30. Focus Settings

Focus Mode: Manual, automatic and semi-automatic mode optional.

"Near limit" can be selected according to the actual application environment, and "3", "6", "12", "24", "36" and "48" can be selected.

"Maximum Zoom Ratio: You can choose the maximum zoom ratio according to your needs, and display the odds in the preview screen after opening.

"Initialize Lens": Click the trigger button to focus once under the default parameters.

"Shot Initialization": Click on trigger and the device performs a shot initialization operation.

[Configuration selection]:

The configuration of image selection can be automatic, daytime and night.

[Image adjustment]:



Figure 31. Image adjustment

"Image adjustment": brightness, contrast, saturation, sharpness and Hue (0-100) can be adjusted according to demand.

[Exposure]:

^ Exposure	
Exposure Mode	Auto Select 🛛 🗹
Gain	50
Shutter Limit	10 ~ 640000 10 ~ 640000ms
Shutter Extension	off 🔽
Anf Mode	Off 🗸 🗸

Figure 32. Exposure adjustment

"Exposure mode": automatic, anti-drag, manual, shutter priority, low light priority, high light priority and other options.

"Gain": Can be adjusted according to demand (0-100).

"Shutter Limit": Can be adjusted according to demand (10-640000 microseconds).

"Shutter Extension": Shutdown, automatic, weak, medium and strong.

"Anti-flicker Anf Mode": There are many choices, such as 50HZ automatic, 60HZ automatic, 50HZ compulsory, 60HZ compulsory and so on.

[WDR]:

^ Wide Dynamic Ra	nge	
Dynamic Range	Off	~
Light Comp	Off	~

Figure 33. WDR

"Dynamic Range" : Close or WDR.

"Light Comp": BLC, HLC, etc.

[Sharpness]:

^ Sharpness		
3D Denoise	Auto Select	\sim
	•	50
Anti Fog	Auto Select	$\mathbf{\sim}$
	= •	50
Gamma	Off	\sim

Figure 34. Definition

- "3D DNR" : Close, Automatic, Manual are options...
- "Anti-Fog" : Close and Manual are options.
- "Gamma" : Close and region selection are options

[W/B]:

^ White Balance		
Mode	Auto	⊻

Figure 35. W/B

Select "automatic", "manual", "sunny", "cloudy", "dusk", "incandescent lamp", "sodium lamp", "fluorescent lamp", "once tracking", "automatic tracking", "special light source", "lock selection".

[Restore default]:

Click "Default Recovery" to restore default values for all image parameters.

ROI Setting

		OSD	Cover	Image	ROI
A STREET WATER	2019-08-27 18:22:47	* Drag Box to Add A	Area		
	and the second second	Clear All			
		Delete			
CONTRACTOR OF		Qp Value		0 🛨 🗐 50	
10000000000	CONTRACTOR OF THE OWNER OF	Save			
	Contraction of the local distance of the loc				
a second s	And the second				
CAMI					

Figure 36. ROI Setting

Preview Interface: After saving the parameter settings, you can see the effect.

"Drag the box to select the add area": The mouse clicks on the preview interface, and the corresponding box appears.

Clear All: All boxes set are cleared.

"Delete the selected area": Delete the selected area pertinently.

"Qp value": can be adjusted according to demand (0-100).

"Save": After setting up, click Save, it will pop up and save successfully.

6

Image superimposition

OSD	Cover	Image		ROI	Superp	osition
Picture Upload						
			Browse		Upload	
Tips: 24 bit color	bmp format, size doe	es not exceed 50	K picture			
Overlay Config						
Enable Pi	ture Overlay					
X Axes	0					
	0					
Y Axes	U					
Picture Width	128					
Picture Height	128					
Save	Defresh					
5470	Trenesh					

Figure 37. Image superimposition

Select the picture that meets the requirement, click upload, turn on the enabler, save it and upload it successfully, and you can see the overlapped picture.

User management

	Number	User Name	User Group	Note
1		admin	admin	admin 's account
2		guest	user	guest 's account
	Add	Delete Modify	Modify Pwd	

Figure 38. User management

User management displays a list of existing users.

"Add" can set user name, password, comment, validation password, user group (admin, user optional) and functional permissions.

Delete: Delete the created user.

"Modify": User names, user groups and permissions can be modified for the created users.

"Modify password": Enter the original password, the new password and the verification password, and click Confirm to complete the modification.

User Information

User Information				
NO.	User Name	Туре	IP	Login Time
1	admin	web2.0	172.16.15.75	2019-8-27 18:8:33
Refresh				

Figure 39. User online

You can view the IP of the login device, username, login time.

PTZ Setting

Channel	1	~
Protocol	PELCOD	~
Address	1	0~255
Baudrate	9600	~
Data Bits	8	~
Stop Bits	1	~
Parity	None	~

Figure 40. PTZ setting

"Protocol": Click on the drop-down menu to pop up a variety of protocols to choose according to needs and will continue to update.

"Address": Set as needed (0-255).

"Baud Rate": Click on the drop-down menu to pop up a variety of parameters to choose according to needs, baud rate "2400" - "115200" multiple options.

"Data bits": Click on the drop-down menu to pop up a variety of parameters to choose according to needs, and choose "5", "6", "7", "8".

"Stop Bit": Click on the drop-down menu "1" and "2" to choose.

"Parity": Click on the drop-down menu "None", "Odd Check" and "Even Check" to select according to needs.

"Save": After setting up, click Save, it will pop up and save successfully.

Refresh: Click to refresh the display.

Image capture setting



Figure 41. Image capture setting

Channel Enables: Enables are selected and set according to requirements.

"Time period":

Schedule				х
0 2 4 6 8 10 12 14 16 18 20 22 24 Sim. Mon. Tues. Wed. Thur. Fri. Sat. Copy All ✓ Sun. Mon. Tues. Wed. Th	Time(Sun.) Period1 0 Period2 0 Period3 0 Period4 0 Period5 0 Period6 0	 ✓ 0 ✓ 0	24 💙 0 24 💙 0 24 💙 0 24 💙 0 24 💙 0 24 💙 0	
	Reset	Reset All	ОК	Cancel

Figure 42. Time period

Click the Settings button to pop up the Time Period Settings menu. Time settings can be set for 6 time periods per day, synchronization settings can be targeted selection or can be selected for a whole week. Settings need to be saved after completion. In addition, there are single reset, all reset, confirm, cancel and other functions buttons, which can be operated according to needs.

"Resolution": The resolution of captured images can be set according to the requirements. There are options: "1920*1080" and "1080*720".

"Image quality": According to the requirements, the image quality of the snapshot can be set, and "poor", "ordinary", "good", "good" and "best" can be selected.

"Interval (s)" : The time interval of capturing can be set according to the requirement (1-120s).

System maintenance

Auto Reboot
Tuesday 🗸 At 02:00 🗸
No Data Reboot
Save Refresh
Reboot
Reboot
Default
Dennin
Restore Resture? Resture? Restore all parameters to default settings
OK
Export
Event
Status
Import
Import File Browse Import
Status
Upgrade
Firmware Browse Upgrade
Status
Description: the upgrade process need 1-10 minutes, please do not turn off the power, will automatically restart after the
completion of the upgrade.

Figure 43. System maintenance

"Auto Reboot ": You can click the drop-down selection (never/day/week) and time point settings to complete the save.

"Reboot": Click , pop up menu, click confirm device to restart.

"Default": Click on the drop-down menu to choose simple recovery and full recovery according to needs. After simple recovery, network settings and user management will not be restored (no restart); all restore factory settings (prompt restart).

"Export": Click, pop-up menu to select storage path and input file name, and then click Save. Successful export will be prompted by text and progress bar.

"Configuration Import": Click Browse the pop-up menu, then select the configuration file that needs to be imported and click Open. After confirming the file is correct, click Configuration Import pop-up menu and click OK. Successful import will be prompted by text and progress bar.

"Upgrade": Click to browse the pop-up menu, then select the software that needs to be upgraded, Click to open, confirm that the software is correct, and then click the upgrade popup menu. Click OK, there will be text and progress bar prompts for successful upgrade, and the device will automatically restart.

Note: Power failure will cause equipment damage during upgrading. Please do not cut off power. Please wait patiently for longer upgrade time.

Network Settings



Figure 44. Network setting

Network Settings	eth0 🔽	DHCP
NIC type	AUTO 🔽	
MAC	ce:30:ba:82:fa:0e	
IP Version	IPv4 🔽	
₽	172.16.15.133	
Mask	255.255.255.0	
Gateway	172.16.15.1	
DNS	223.5.5.5	
DNS(Spare)	223.6.6.6	
Device Name	IPZM	
HTTP Port	80	
HTTPS Port	8443	
TCP Port	9000	
Max Connections	128	
MTU Set	AUTO 🗸	

Figure 45. Network setting options

Network Type

"DHCP": DHCP can be checked according to the need, and the device can automatically obtain the network address and related network parameters.

"NIC Type": Network Card Type can be set, default self-adaptive, optional 10M half-duplex, 10M full-duplex, 100M full-duplex, 100M full-duplex.

"MAC Address": Displays the MAC address of the camera. This address cannot be set or changed.

"IP Version": IPV4 and IPV6 can be selected.

"IP ": Effective IP address settings can be made for devices as required.

"Mask" can set up subnet mask effectively for equipment according to need.

"Gateway": Effective gateway settings can be made for devices as needed.

"DNS": DNS servers need to configure available server addresses, and need domain name access to function properly.

"Device Name": Device name can be set according to need.

"HTTP Port": The default port is 80, which can be set to the device according to the needs of network access.

"HTTPS Port": By default 8443, you can set the appropriate port for the device according to the needs of network access.

"TCP Port": The default port is 9000, which can be set to the device according to the needs of network access.

"Max connection": default 128 routes, according to the needs of network access devices can be set accordingly.

"MTU Set" is self-adaptive by default and can be set 576-1500 manually.

"Save": After setting up, click Save, it will pop up and save successfully.

"Refresh": Click to refresh the display.

RTSP



Figure 46. RTSP

Enables: Enables are selected and set according to requirements.

"Listening Port": The default port is 554, which can be set according to the needs of network settings.

"Start Port": The default port is 20000, which can be set according to the needs of network settings.

"Port Number" defaults to 1000 routes, which can be set according to the needs of network settings.

"Save": After setting up, click Save, it will pop up and save successfully.

"Refresh": Click to refresh the display.

NTP

Enable	
Server IP	NTPServer
Port	123
Period	10 Minute
Time Zone	GMT+08:00 🔽
Save	Refresh

Figure 47. NTP

Enables: Enables are selected and set according to requirements.

"Server IP": Set NTP server address, according to the need for appropriate settings.

"Port": The default port 123 can be set according to the needs of network settings.

"Renewal Period": Setting the time interval according to the requirements, the equipment can be set every time interval.

"Time zone": According to the time zone where the equipment is located, it can be set up according to the actual situation.

"Save": After setting up, click Save, it will pop up and save successfully

Refresh: Click to refresh the display.

DDNS	Oray DDNS	~
	Enable	
Domain Name		
User Name		
Password.		
Save	Refresh	

Figure 48. DDNS



"DDNS Type" can be selected as (NOIP DDNS

) according to need.

Enables: Enables are selected and set according to requirements.

"Domain Name": The device domain name is the domain name that the user applies for on the website of the software operator.

User Name: User Name applied for on the website of the software operator.

"Password": The password that the user applies for on the website of the software operator. "Save": After setting up, click Save, it will pop up and save successfully.

Refresh: Click to refresh the display.

DDNS

IP Authorization



Figure 49. IP right

Enables: Enables are selected and set according to requirements.

"Restriction Type" can be selected as (Blacklists) according to the need.

Whitelist

Add IP": Enter the IP you need to add in the left input box first, and click Add IP successfully and it will be displayed in the list below.

"Allowed IP List": If white list is selected in the above (restricted type), then all IP added after that will be in this list.

"Prohibited IP List": If the blacklist is selected in the above (restricted type), then all the IP added after that will be in this list.

Delete IP: Find the IP mouse in the list that needs to be deleted, click Select, and then click Delete IP.

"Save": After setting up, click Save, it will pop up and save successfully.

Refresh: Click to refresh the display.



	_
Enable	-
SMTP Server	MailServer
D 1	1 45500
Port	25 1~03500
User Name	none@xxx.com
Deemond	
Password	
Sender's Address	none@xxx.com
Email Title	ALARM
Receiver1's Address	none@xxx.com
Receiver2's Address	none@xxx.com
Receiver3's Address	none@xxx.com
Receiver4's Address	none@xxx.com
Decement's Address	
Receivers 5 Address	none@xxx.com
Coup Dofr	ach
Save Ren	esi

Figure 50. Email

Enable: click Enable and set according to requirement

SMTP Server: Set the address of SMTP Server and make the setting according to requirement

Port: The default port is 25, which can be set according to requirement of network settings User Name: input the sender's mailbox username

Password: input the sender's mailbox password

Sender: input the sender's mailbox address

"Mail Title": input the subject of email

"Receiving Address": input the recipient's mailbox address (up to 5)

"Save": click Save after setting, it will pop up and save successfully

Refresh: Click to refresh the display

FTP

FTP Server Config		
File Type Record 🔽	🔲 Enable 🔛 Anonymous	
Server Ip Record FTP	Port 21	
User Name	Password	
Directory	File Length 0	MB
Save Refresh		
Param Config		
Channel 1	File Type Record 🔀	
Week Sun. 🔽		
Period1 0 🗸 : 0 🗸 : 0 🗸 ~ 24	🔽 : 0 🔽 : 0 🔽 🗖 General	Motion 🔲 Alarm
Period2 0 🗸 : 0 🔽 : 0 🗸 ~ 24	V:0 V:0 V General	Motion 📕 Alarm
Save Refresh		



"File type": this can be selected (Ficture

Enable: click Enable and set according to requirement

"Anonymity": when the anonymity Enabled, the camera can send data to the FTP server anonymously, and sets it up according to requirement

) according to requirement

"Server": Set FTP server address according to requirement

Port: The default port 1024, and it can be set according to requirement of network settings

"User Name": Enter the user name with FTP upload authority

Password: Enter the password with FTP upload authority

"Remote directory": Set up the path to save the uploaded files, which can be set accordingly according to requirement

"File Length": Limit the file size to be uploaded, and it can be set accordingly

"Save": click Save after setting, it will pop up and save successfully

Refresh: Click to refresh the display

"Channel": Select what requirement to be uploaded, and make the settings accordingly

"Weekly". Equipment can be selected weekly according to requirement

"Time period" this can be selected from a variety of choices according to requirement of the equipment (there are two time periods can be set, time can be set for different hours, images can be chosen from Ordinary/Detection/Alarm)

UPNP

Enable		
Web Part	80	Mapping Failed
TCP Port	9000	Mapping Failed
Listen Port	554	Mapping Failed
Save	Refresh	

Figure 52. UPNP

Enable: click Enable and set according to requirement

"Web Port": The default port is 80, which can be set according to requirement of network settings

"TCP Port": The default port is 34567, which can be set according to requirement of network settings

"RTSP intercept port": Make port settings according to requirement of network settings "Save": click Save after setting, it will pop up and save successfully

Refresh: Click to refresh the display

PPPOE

Enable	
User Name	
Password.	
₽	0.0.0.0
Save	Refresh
Password IP Save	0.0.0.0 Refresh

Figure 53. PPPOE

Enable: click Enable and set according to requirement User Name: input the username of PPPOE Password: input the password of PPPOE "IP": After saving, the camera will get a public IP address "Save": click Save after setting, it will pop up and save successfully Refresh: Click to refresh the display

Active registration

Enable	2
Server IP	115.28.101.174
Server Port	9000
P2P Enable	
User Name	oem123
Password.	
Identification	3301061001413
Online state	Keep your heart beating well[18]
Save F	Refresh

Figure 54. Active registration

Enable: click Enable and set according to requirement

"Server IP" set the IP address of the platform server, which can be set according to requirement

Server Port: It can be set according to requirement of network settings

"P2P Enable": click Enable and set according to requirement

User Name: input the user name of the device

Password: input the password for device

"Unified Equipment Identification": It should be calculated on the platform software and then fill in

"Online status": Display active registration status

"Save": click Save after setting, it will pop up and save successfully

Refresh: Click to refresh the display

Syslog



Figure 55. syslog

ONVIF

Enable	₩
Port	80
Version	2.40
Discovery Mode	Visible 🔽
Vendor Name	IPC
Authentication Enable	•
ODT Test	•
Save	Refresh

Figure 56.ONVIF

Enable: click Enable and set according to requirement

Port: The default port is 80, which can be set according to requirement Version Information: Display onvif version

"discovery mode" select the equipment (Invisible according to requirement "Authentication Enable": click Enable and set up according to requirement "ODT Testing": click Enable and set according to requirement "Save": click Save after setting, it will pop up and save successfully Refresh: Click to refresh the display

U		N
	-	

RTMP

Enable	⊠
port	1935
Save	Refresh
RTMP Push	
Enable	•
Channel	1 🔽
Stream Type	Main 🔽
Push Address	

Figure 57. RTMP

Enabling: click by default and set it according to requirement

"Port" setting port, default 1935, and it can be set accordingly according to requirement "RTMP Push Enable": click to open RTMP Push function

"Stream Type": The default main stream can be selected according to requirement Push Address is set according to requirement

"Save": click Save after setting, it will pop up and save successfully Refresh: Click to refresh the display

RTMP PUSH



Figure 58. RTMP Push

Alarm Center

Alarm Center Address	
Alarm Center Port	18082
Device ID	default
Save	Refresh

Figure 59. Alarm Center

Enable: click Enable and set according to requirement

"Server IP" sets the server IP address, which can be set according to requirement "Port" defaults to 9033 port, which can be set according to requirement of network settings "Save": click Save after setting, it will pop up and save successfully Refresh: Click to refresh the display

Storage Settings

Storage Settings *
Record Settings
Record Control
Disk Manager

Figure 60. Storage settings

Recording setting



Figure 61. Recording setting

"Channel Number": Choose the channel to be recorded, and set it accordingly according to requirement

"Video streaming": Choose the streams to be recorded, and set according to requirement Choose "mainstream" or "second stream"

"Length": refers to the length of each video file, which can be set according to requirement (1-120 minutes)

"Preview time": refers to time in advance of each video file (several seconds), can be set according to requirement (1-5 seconds)

"Time Settings": Time settings can be set for six periods per day. Video recording can be selected as Normal, Detection and Alarm. Synchronization settings can be selected for a whole week. Settings should be saved after completion. In addition, there are individual resets, which can be operated according to requirement

"Save": click Save after setting, it will pop up and save successfully Refresh: Click to refresh the display

All Resets: All settings are restored to default

Video Control

Channel:1		
Mode	All	
Schedule	•	0
Manual	•	•
Stop	•	•
Save Refresh		

Figure 62. Video control

"Video Control": there are Configuration, Always, Close Control options, and these can be set up according to requirement

"Save": click Save after setting, it will pop up and save successfully

Refresh: Click to refresh the display

Hard Disk Management

Disk No.	Physical No.	Disk Group	State	Attribute	Free	Total	
							^
							~
Refresh Set Read And Wri	ite 🔽 Execute						

Figure 63. Hard Disk Management

"Hard Disk Management": It can display the hard disk information, such as hard disk serial number, physical serial number, disk group, hard disk status, attributes, surplus capacity, and total capacity, etc.

Refresh: Refresh display

"Hard Disk Settings" select the serial number of the hard disk first according to requirement, and then select "Set Read-Write", "Set Read-Only", "Set Redundancy", "Clear Data", "Recovery Error", "Repartition", "Format". Click Confirm on the pop-up menu, and set up according to requirement.

Alarm Setting



Figure 64. Alarm Setting

Video Mask



Figure 65. Video Mask

"Detection type": The equipment can be selected (Blind) according to requirement.

Channel: Set up according to requirement.

Enable: click Enable and set according to requirement.

"Sensitivity": The equipment can be set up (0-100) as required.

"Alarm threshold": the equipment can be set up (0-100) according to requirement.

Area: Use the mouse to click and drag settings. The red areas are the monitoring area, and the grey areas are the non-monitoring area.

"Select all areas": to Select all areas as the monitoring area.

"Clean up all areas": Clean all the monitoring areas.

"Time Period": Click the Settings button to pop up the Time Period Settings menu. Time settings can be set for 6 periods per day. Synchronization settings can be selected by target and for a whole week. Settings should be saved after completion. In addition, there is individual reset, all reset, confirm, cancel and other functions buttons, which can be operated according to requirement.

"Send mail": click Enable according to requirement of settings. This requires the support of

network mail function settings

"Dejitter": this can be set (0-600 seconds) according to requirement of settings.

"Alarm Output": click Enable according to requirement of the settings.

- "Output Delay": this can be set (10-300 seconds) according to requirement of settings.
- "Video Channel": click Enable according to requirement of the settings.
- "Video Delay": this can be set (10-300 seconds) according to requirement of settings.



"PTZ Linkage" click Enable to select (Pattern). To input preset point in Digital input box

according to requirement of setting. "Capture": click Enable according to requirement of the settings.

"Save": Click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

External Alarm

	Alarm In 🔽
Channel	1 🗸
	✔ Enable
Туре	Normal Open 🔽
Schedule	Set Delay 2 s(0~600)
Post-record	10 s(10~300)
Send Email	
Alarm Out	1 🔽
Alarm Duration	10 s(10~300)
Record Channel	1 🔽
🔲 PTZ Linkage	1 🔽 Never 🔽 0
Snap	1 🔽
Save	Refresh

Figure 66. External Alarm

"Detection type": The equipment can be selected according to requirement. "Channel": According to requirement, set 1 as alarm input #1, set 2 as alarm input #2

Enable: click Enable and set according to requirement.

"Trigger type" this can be selected (Normal Open) according to requirement.

"Time Period": Click the Settings button to pop up the Time Period Settings menu. Time settings can be set for 6 periods per day. Synchronization settings can be selected by target and for a whole week. Settings should be saved after completion. In addition, there is individual reset, all reset, confirm, cancel and other functions buttons, which can be operated according to requirement.

"Dejitter": this can be set (0-600 seconds) according to requirement of settings.

"Video Delay": this can be set (10-300 seconds) according to requirement of settings.

"Send mail": click Enable according to requirement of settings. This requires the support of

network mail function settings

"Alarm Output": click Enable according to requirement of the settings. Set 1 as alarm input #1, set 2 as alarm input #2

"Output Delay": this can be set (10-300 seconds) according to requirement of settings.

"Video Channel": click Enable according to requirement of the settings.



"PTZ Linkage" click Enable to select (^{Pattern}). To input preset point in Digital input box according to requirement of setting.

"Capture": click Enable according to requirement of the settings.

"Save": Click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

Alarm Output



Figure 67. Alarm Output

"Alarm mode": there are Configuration, Always, Close Control options, and can be set according to requirement.

"Status": Alarm status prompts when the alarm output turns red.

"Save": Click save after setting, and it will pop up to save successfully.

Refresh: Click to refresh the display.

Abnormality Handling



Figure 68. Abnormal Alarm



Enable: click Enable and set according to requirement.

"Video Delay": this can be set (10-300 seconds) according to requirement of settings.

"Video Channel": click Enabled and make setting according to requirement

"Save": click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

Equipment Log

Log Settings	
Log Search	
Log Settings	
Intervideo Log	

Figure 69. Equipment Log

2.4.6.1.Log Search

No.	Time	Event	Channel	Content			
1	2019-08-27 18:18:39	Save configuration!					
2	2019-08-27 18:18:39	Save configuration!			\mathbf{r}		
3	2019-08-27 18:18:39	Save configuration!			1		
4	2019-08-27 18:18:39	Save configuration!		Image Setting	1		
5	2019-08-27 18:18:39	Save configuration!		Channel name			
6	2019-08-27 18:08:33	User login!		ədmin			
7	2019-08-27 18:08:28	User Logout!		ədmin		Type:	All 🔽
8	2019-08-27 18:08:10	User login!		ədmin	1		2019-08-27 🧮
9	2019-08-27 18:08:03	User Logout!		ədmin		Begin:	
10	2019-08-27 18:04:10	User Logout!		ədmin			$00 \Rightarrow 00 \Rightarrow 00 \Rightarrow$
11	2019-08-27 18:03:28	User login!		ədmin			2019-08-27 🧧
12	2019-08-27 18:02:59	Modify user password			1	End:	22 Å : 50 Å : 50 Å
13	2019-08-27 18:02:37	User login!		ədmin			23 0 . 35 0 . 35 0
14	2019-08-27 18:01:29	User Logout!		admin		Search	
15	2019-08-27 18:00:41	Save configuration!				Clear	
16	2019-08-27 17:59:58	User login!		ədmin			
17	2019-08-27 17:59:53	User Logout!		ədmin			
18	2019-08-27 17:52:01	User Logout!		ədmin			
19	2019-08-27 17:52:01	Save configuration!		Encode Settings	`		
			(Previous Next			

Figure 70. Log Search



"Type" This can be selected (File Opration

) according to requirement of the device

"Start time": You can make separate setting on "year", "month", "day", "time", "minute" and "second".

"End time" You can make separate setting on "year", "month", "day", "time", "minute" and "second".

Search: After select the type, start and end times, click Search to display log information during that period.

Clear: Click Clear pop-up menu to select OK, and clear all log information.

"Information Display Box": the log information will be displayed after search, and you can view the serial number, log time, events, channels, extended content and other information.

Log Configuration



Figure 71. Log Configuration

"Log Full": Stop/overwrite options can be selected according to requirement when the log is full

"Save Log Type": Make Single Select or All Select to all the system information you need to save.

"Save": click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

Access to Log



Figure 72. Access to Log

"Search": Click Search to access to log information.

"Clear": Click on the Clear pop-up menu to select Confirm, and clear the log information. "Information Display Box": the log information will be displayed here.

Local Setting

Save Type	.jpg 🔽	
record_type	.mp4 🗸	
Pack Length	5 Minute	
File Path	C:\Users\黄海乐\Desktop	Browse
Save Refre	esh	

Figure 73. Local Setting

"Capture Type": Local capture format can be set according to requirement, and "jpg" or "bmp" can be selected according to requirement.

"Video Type": local video format can be set according to requirement, and ".dav" or "mp4" can be selected according to requirement.

"Decoding Type": Optional: "Adaptive", "Hard Decode", "Soft Decode". This is aiming at optimizing Preview stumble problem

"Video File Packing Time": Packing time can be set (1-60 minutes) as requirement.

"Video and capturing Path": Storage Path can be set as requirement (default d:path_media). "Save": click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

Smart Features

Web Server							
Preview	Playback	Settings	Smart				
Perimeter Detection							
Line Detection	_						
			1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -	2019-08-27 18:50:45	Event Type	Intrusion	Delete
		100		Sec. 1	🔲 Enable		
		Contraction of the		10000	No Alarm Color	Green 🗸	
		11256		A	Alarm Color	Red 🔽	
		1000000					
					Schedule	Set	
		10000			Send Email		Delay 2 s(0~600)
					🔲 Alarm Out	1 🔽	Alarm Duration 10 s(10~300)
					Record Channel	1 🔽	Post-record 10 s(10~300)
		CAN.		Contract of the second	🔲 PTZ Linkage	1 Vever	v 0
					Snap	1 🔽	
					Save	Refresh	

Click on the Smart tab to enter the intelligent functions page

Figure 74. Intelligent Functions

Perimeter

Event Type	Intrusion	Delete
Enable		
No Alarm Color	Green 🔽	
Alarm Color	Red 🔽	
Schedule	Set	
🔲 Send Email		Delay 2 s(0~600)
🔲 Alarm Out	1 🔽	Alarm Duration 10 s(10~300)
Record Channel	1 🔽	Post-record 10 s(10~300)
🔲 PTZ Linkage	1 🔽 Never 🗸	0
Snap	1 🔽	
Save	Refresh	

Figure 75. Perimeter Detection

"Preview Interface": By default, there is an identification box, which can be dragged by the mouse to zoom in and out (4 areas can be set). After saving the parameters, you can see the effect.

Event Type: Default type is Perimeter.

Enable: click Enable and set according to requirement.

"Eliminate Shadows": turn on in special environments like in shadow and reflection

"Display Rule Line": click Enable and setting according to requirement.

"Max./Min. Object Alarm Height": After the max. click measurement, select the maximum range of the left-click drop-down box in the small window, and the same operation can set to the min. click.

"Alarm type": make settings according to requirement. There are two options: touch line alarm/cross line alarm.

"Time Period": Click the Settings button to pop up the Time Period Settings menu. Time settings can be set for 6 periods per day. Synchronization settings can be selected by target and for a whole week. Settings should be saved after completion. In addition, there is single reset, all reset, confirm, cancel and other functions buttons, which can be operated according to requirement.

"Send mail": click Enable according to requirement of settings. This requires the support of network mail function settings

"Log": click Enable according to requirement of settings.

"Dejitter": this can be set (0-600 seconds) according to requirement of settings.

"Alarm Output": click Enable according to requirement of the settings.

"Output Delay": this can be set (10-300 seconds) according to requirement of settings.

"Video Channel": click Enable according to requirement of the settings.

"Video Delay": this can be set (10-300 seconds), according to requirement of settings.

"PTZ Linkage" click "PTZ Linkage" to enable the selection. Alarm linkages can be selected (never/preset point/cruise group/patrol). To input preset point in Digital input box according to requirement of setting.

"Capture": click Enable according to requirement of the settings.

"Save": Click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

Line-crossing Detection

Event Type	Across	Delete
Enable		
No Alarm Color	Green 🔽	
Alarm Color	Red 🔽	
Schedule	Set	
Send Email		Delay 2 s(0~600)
🔲 Alarm Out	1 🔽	Alarm Duration 10 s(10~300)
Record Channel	1 🔽	Post-record 10 s(10~300)
PTZ Linkage	1 🔽 Never 🔽	0
Snap	1 🔽	
Save	Refresh	

Figure 76. Line-crossing Detection

"Preview Interface": By default, there is an identification box, which can be dragged and July 2024 www.activesilicon.com Page 50 of 52 scribed by mouse (8 trigger lines can be set). After parameter setting saved, the effect can be seen.

Event Type: Default type is Line-crossing.

Enable: click Enable and set according to requirement.

"Clear the line": Set up the preview interface according to requirement

"Clear Shadows": turn on in special environments like in shadow and reflection

"Display Rule Line": click Enable and setting according to requirement.

"Max./Min. Object Alarm Height": After the max. click measurement, select the maximum range of the left-click drop-down box in the small window, and the same operation can set to the min. click.

"Alarm type": make settings according to requirement. There are two options: touch line alarm/cross line alarm.

"Time Period": Click the Settings button to pop up the Time Period Settings menu. Time settings can be set for 6 periods per day. Synchronization settings can be selected by target or can for a whole week. Settings should be saved after completion. In addition, there is single reset, all reset, confirm, cancel and other functions buttons, which can be operated according to requirement.

"Send mail": click Enable according to requirement of settings. This requirement the support of network mail function settings

"Log": click Enable according to requirement of settings.

"Dejitter": this can be set (0-600 seconds) according to requirement of settings.

"Alarm Output": click Enable according to requirement of the settings.

"Output Delay": this can be set (10-300 seconds) according to requirement of settings.

"Video Channel": click Enable according to requirement of the settings.

"Video Delay": this can be set (10-300 seconds), according to requirement of settings.

"PTZ Linkage" click "PTZ Linkage" to enable the selection. Alarm linkages can be selected (never/preset point/cruise group/patrol). To input preset point in Digital input box according to requirement of setting.

"Capture": click Enable according to requirement of the settings.

"Save": Click Save after setting, it will pop up and save successfully.

Refresh: Click to refresh the display.

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