

Web Configuration

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Preface

Overview

This document is intended to present how to configure the supported network cameras through web pages.

Product Version

Chipset	Kernel Version
RV1109, RV1126, RK1808, RK1806	Linux 4.19

Intended Audience

This document (this guide) is mainly intended for:

Technical support engineers

Software development engineers

Revision History

Version	Author	Date	Change Description
V1.0.0	Allen Chen	2020-04-29	Initial version
V1.1.0	Allen Chen	2020-05-19	Add introduction about face-output and user management.
V1.2.0	Allen Chen	2020-06-04	Add introduction on record about preview and face mode switch.
V1.3.0	Allen Chen	2020-07-14	Add introduction on ISP, storage management and face recognition.
V1.3.1	Allen Chen	2020-07-25	Correction.
V1.4.0	Allen Chen	2020-08-14	Add introduction on face function changes.

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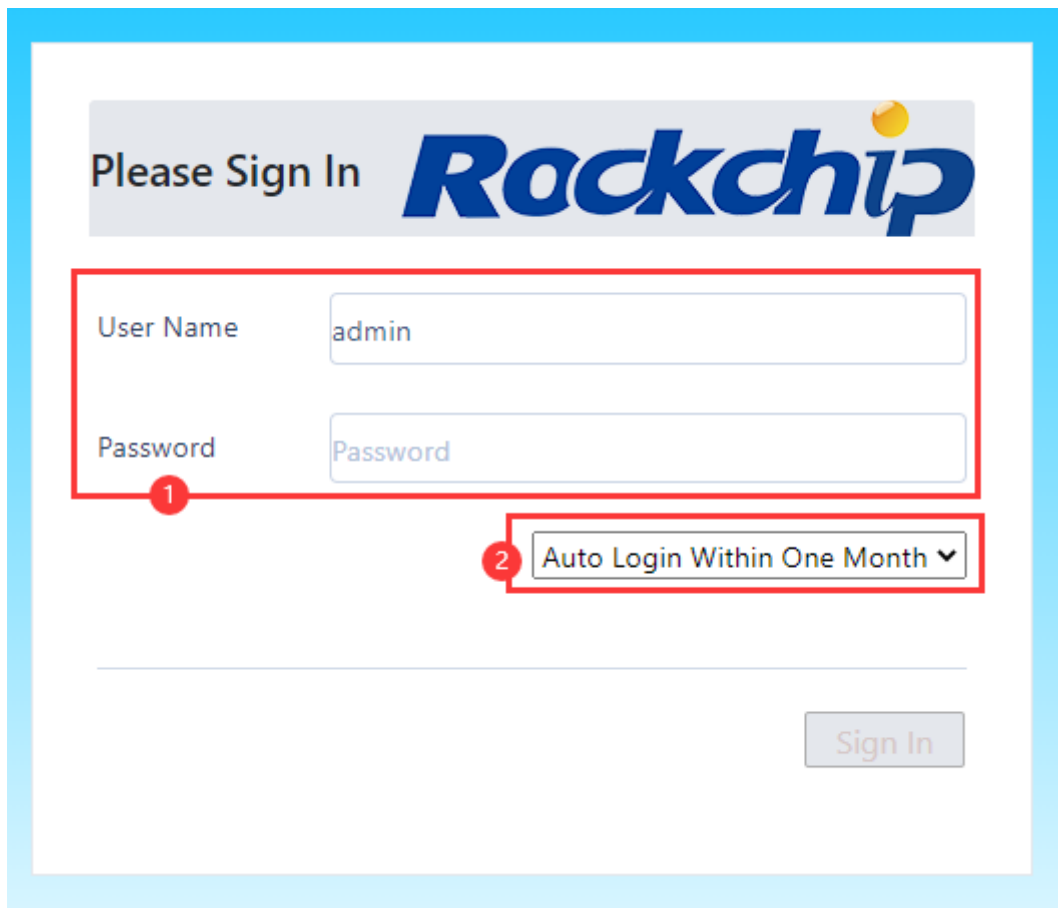
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1. Functions

function\production	Gate	IPC
User Authentication	√	√
Preview	×	√
Review	×	√
Face Recognition Manager	√	√
System Config	√	√
Network Config	√	√
Video Config	×	√
Audio Config	×	√
Image Config	×	√
Event Manager	×	√
Plan Config	×	√
Storage Config	√	√
Intelligence Analysis	×	√
Peripherals	√	×

2. User Authentication



The image shows a login page for Rockchip. At the top, it says "Please Sign In" followed by the "Rockchip" logo. Below this is a red-bordered box containing the login fields. Inside this box, there are two input fields: "User Name" with the value "admin" and "Password" with the placeholder text "Password". A red circle with the number "1" is positioned below the "Password" field. To the right of the "Password" field, there is a dropdown menu labeled "Auto Login Within One Month" with a downward arrow. A red circle with the number "2" is positioned to the left of this dropdown menu. Below the red-bordered box is a horizontal line, and further down is a "Sign In" button.

Login address: device IP + /login

①Default:

User Name: admin

Password: admin

②Password-free login: set time for password-free login.

Temporary login: Password-free login within 1 hour.

Auto Login Within One Day: Password-free login within 24 hours.

Auto Login Within One Week: Login without password within 7 days.

Auto Login Within One Month: Login without password within 30 days.

Browser requirements: and_chr 81 / and_ff 68 / and_qq 1.2 / and_uc 12.12 / android 81 / baidu 7.12 / chrome 81 / chrome 80 / chrome 79 / edge 81 / edge 80 / edge 18 / firefox 75 / firefox 74 / firefox 73 / firefox 68 / ios_saf 13.3 / ios_saf 13.2 / ios_saf 12.2-12.4 / kaios 2.5 / op_mini all / op_mob 46 / opera 68 / opera 67 / safari 13 / safari 12.1 / samsung 11.1 / samsung 10.1

Remark: using browser that is beyond requirements, part of functions would be disabled.

Use a browser to access the login address, you can see the login address as shown in the figure above.

3. Header Navigation

- ①Preview: Enter preview page. Please refer to chapter 4.Preview for details.
- ②Review: Inquire video review and snap. Please refer to chapter 5.Review for details.
- ③Face: Set white list/black list and inquire record. Please refer to chapter 6.Face Recognition Manager for details. This item is a function of the IPC product, and gate products don't have this item.
- ④Face Config: Correspond to config in Face. This item is a function of the gate product, and IPC products don't have this item.
- ⑤Manage: Corresponding to member list, registration, snapshot record, control record function. This item is a function of the gate product, and IPC products do not have this item.
- ⑥Config: Set most config of device. Please refer to chapter 7.Config for details.
- ⑦About: View copyright information.
- ⑧Language: Double click to switch English/Chinese.
- ⑨User Name: Show User name.
- ⑩Logout: Logout and enter login page.

4. Preview



- ①Player Menu: Only support playing/pausing/stopping。
- ②Switch Stream: To be realized.
- ③Snapshot: Snapshot. Inquire record in review page.
- ④Recording: Recording switch. When switch on, color of this button would alter to blue. Inquire record in review page.
- ⑤PTZ: IPC PTZ. To be realized.

5. Review

Inquire snap and record.

5.1 Video Record

Inquire Condition

File Type
video0

Start Time
1970/01/01 00:00:00

End Time
2020/07/13 23:59:59

Ordered By Time
☒ Positive Order ☐ Reverse Order

Inquire

Download List (preview when file name is clicked)

Order	File Name	Time	File Size
1	main_20200713111900_2.mp4	2020-07-13 11:19:00	2.6M
2	main_20200713111829_1.mp4	2020-07-13 11:18:29	1.88M
3	main_20200713111636_2.mp4	2020-07-13 11:16:41	1.54M
4	main_20200713104027_3.mp4	2020-07-13 10:47:47	0.01M
5	main_20200713103955_2.mp4	2020-07-13 10:47:47	2.85M
6	main_20200713104027_4.mp4	2020-07-13 10:47:47	3.29M
7	main_20200713104212_5.mp4	2020-07-13 10:47:47	7.92M
8	main_20200713103816_1.mp4	2020-07-13 10:47:47	3.12M

Download Delete

Preview

0:00

总共 8条 当前 8条 << < 1/1 > >>

①Inquire: Inquire by type and time.

②Preview: Preview record when double click on file.

③Download: Download file selected.

④Delete: Delete file selected.

5.2 Snapshot

Inquire Condition

File Type
photo0

Start Time
1970/01/01 00:00:00

End Time
2020/07/13 23:59:59

Ordered By Time
☒ Positive Order ☐ Reverse Order

Inquire

Download List

Order	File Name	Preview	Time	File Size
1	main_19700101_080156_1.jpeg		2020-07-13 10:38:21	1.68M

Download Delete

总共 1条 当前 1条 << < 1/1 > >>


①Inquire: Inquire by type and time.

②Download: Download file selected.

③Delete: Delete file selected.

6. Face Recognition Manager

6.1 Member List

ID	Edit	Name	Registration Avatar	Feature	Type	Access Card	Gender	Registration Time
0	<div>Modify Delete</div>	test		Success	White List	0	Male	2020-08-13T19:41:09

Member Manage
Switch Mode: delete
Search Condition: Search By Condition
Start Time: 1970/01/01 00:00:00
End Time: 2020/08/13 23:59:59
Type: ALL
Gender: ALL
Age: 0 - 100
Card Number: 0
Search
Output

总共 1 条 当前 1 条 << < 1/1 > >>

①Search: Search by conditions or by name.

②Output: Export all information except image to excel.

③Switch Mode: Switch Search/Delete Mode. Support data deletion and information reset in delete mode. Deleting a person will also delete the control records related to that person.

④Edit: Double click on raw to show edit menu. With that, you could modify or delete information selected.

⑤Feature: Feature determines a image whether can be used in face system.

Wait: It means that device is trying to get feature. If it shows 'wait' for a long time, maybe something wrong with getting feature. At this case, you could delete it and reupload.

Success: Image could be used for face recognition.

Fail: Image could not be used for face recognition.

Repeat: Image that has the same feature has been registered.

6.2 Single Registration

Registration

No File Selected(file size should be smaller than 1M)

Select

List Type

Permanent ▼

Access Card

0

Register

Reset

Type

White List ▼

Name

Gender

Male ▼

Nation

汉族 ▼

Identification

Identity Card ▼

ID Card

Birthday

1970/01/01

Phone

Hometown

Address

Remark

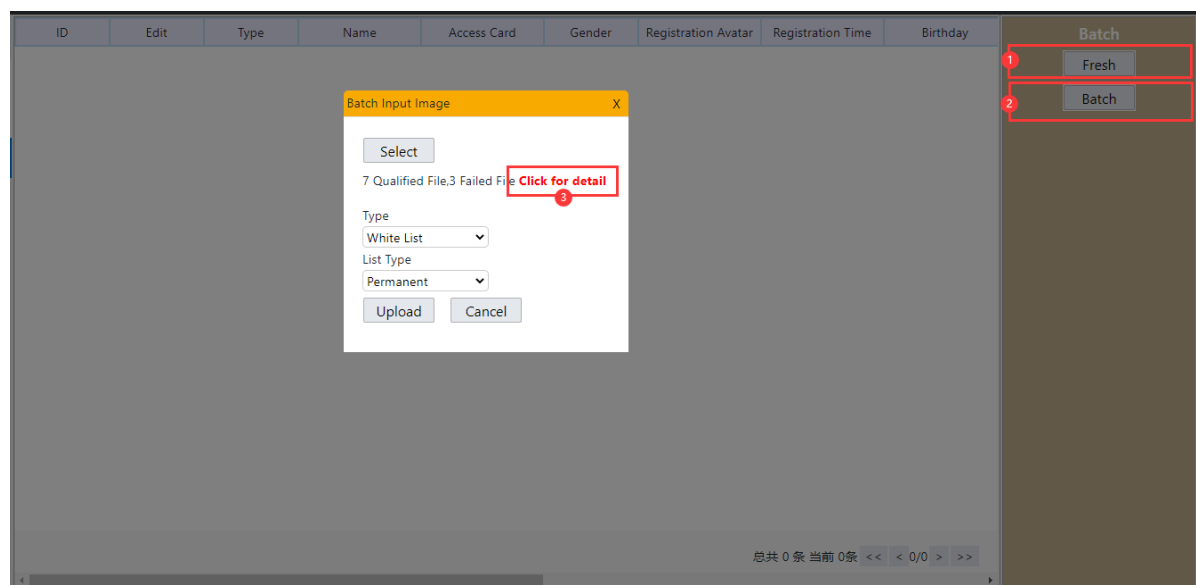
Add face information for person.

Picture: File format should be jpg and its size should be smaller than 1MB.

Remark: When optional message is blank, it would be filled with default.

6.3 Batch Registration

6.3.1 Introduce



①Fresh: Fresh data.

②Batch: After click show input menu.

③Unqualified image info: Show reason of unqualified image.

Picture: File format should be jpg and its size should be smaller than 1MB.

Remark: If image is not qualified, it will fail when device gets feature. Feature of Please refer to chapter 6.Member List for details.

6.3.2 Import speed

Browser: chrome84.0.4147.105

Sample: 100 pcs 50KB pictures

Internet speed(KB)	Time (s/100pcs)	Average speed (pcs/s)
2048	43	2.3
1024	63	1.6
500	110	0.91

If the import speed is quite different from the table in actual use, please try the following:

- 1.Check whether the router has a speed limit.
- 2.After closing the firewall, re-import to check whether the firewall is speed limited.
- 3.Update the browser.

6.4 Other Functions

Snap Shot: Inquire Snapshot record. You can delete record in delete mode. This function only realize in gate products.

Control: Inquire Control record. You can delete record in delete mode. This function only realize in turnstile products.

6.5 Usage

1.Make sure Face Detection and Face Recognition is enabled in Config/Intelligence Analysis/Smart Cover. Please refer to section 7.8.1 for details.

2.Register members in Member List or Batch Input.

3.Person not registered will be recorded in snapshot(only support in gate products). And person registered will be recorded in control(Present Avatar is supported only in gate products).

7. Config

7.1 System

7.1.1 Setting

7.1.1.1 Basic Setting

Get Device info and set device name/ID.

7.1.1.2 Time Setting

Set device time.

The screenshot shows a 'Time Setting' interface with the following elements:

- 1**: A checkbox labeled 'DST Enabled'.
- 2**: A dropdown menu for 'Timezone' currently set to '(UTC+08:00) Beijing, Chongqing, Hong Kong Special Administrative Region, Urumqi'.
- 3**: A red circle icon in the top right corner of the 'NTP Calibration' section.
- 4**: A 'test' button located at the bottom of the 'NTP Calibration' section.
- 5**: A red circle icon in the top right corner of the 'Manual Calibration' section.

The 'NTP Calibration' section includes:

- 'NTP Services' input field with the value '122.224.9.29 94.130.49.186'.
- 'Calibration Interval' input field with the value '60' and the unit 'Minutes'.

The 'Manual Calibration' section includes:

- 'Time of Device' input field with the value '2020/07/14 11:44:53'.
- 'Set Time' input field with the value '2020/07/14 11:42:41' and a 'Sync Local Time' checkbox.
- A 'Save' button at the bottom.

- ①DST: Auto Perform DST according to the time zone setting.
- ②Time Zone: Set Time Zone. It functions only when using NTP.
- ③NTP: Set NTP service address and interval to calibrate.
- ④NTP test: To be realized.
- ⑤Manual Calibration: Set time by input.

7.1.2 Maintain

7.1.2.1 Upgrade

Restart

Restart device. Restart ①

Restore Default Setting

Restore default setting simply. Restore ②

Output Information

Device Parameter Output ③

Include log, system information and so on. Output ④

Input Device Parameter

Device Parameter Select No File Selected Input ⑤

Status

Upgrade

Upgrade File Select No File Selected Upgrade ⑥

Status

- ①Restart: Restart device. You should fresh page after completion.
- ②Restore: Restore default setting. You should fresh page after completion.
- ③Output Device Parameter: Output parameter as .db file.
- ④Device Log: Output device log as log file.
- ⑤Input Device Parameter: Input parameter using .db file.
- ⑥Upgrade: Upgrade by .img file. You should fresh page after completion.

7.1.2.2 Log

Show System log. To be realized.

7.1.3 User

User List		Modify	Delete	Add	Fresh	1
ID	User Name	Authority				2
1	admin	Manager				

User Management.

①Menu:

Fresh: Fresh user list.

Add: Add an normal user by admin.

Modify: Modify password of the user selected by admin.

Delete: Delete the user selected by admin. Admin can't be deleted.

②User List: Show users registered.

7.1.4 Security

To be realized.

7.2 Network

7.2.1 Basic

TCP/IP: Set Nic address and IP address.

DDNS: To be realized.

PPPoE: To be realized.

Port: Set Port.

uPnp: To be realized.

7.2.2 Advance

7.2.2.1 WIFI

The screenshot shows a user interface for managing Wi-Fi. At the top left, there is a checkbox labeled 'Enable' with a red circle and the number 1 next to it. To the right, there is a 'Scan' button with a red circle and the number 2 next to it. Below these is a table titled 'Wi-Fi List' with a red circle and the number 3 next to its title. The table has seven columns: 'id', 'Wi-Fi Name', 'Wi-Fi Strength', 'security', 'Wi-Fi State', 'Wi-Fi Favorite', and 'Type'. The table body is currently empty. Below the table, there is a 'Wi-Fi Setting' section with a red circle and the number 4 next to its title. This section contains a checkbox for 'Wi-Fi AutoConnect', input fields for 'Wi-Fi Name' and 'Wi-Fi Password', and two buttons: 'Connect' and 'Delete'.

①Enabled: Turn on/off WIFI. It is disabled during turning on WIFI.

②Scan: Scan and show WIFI in list.

③WIFI List: Show WIFI scanned. Row color is green when connecting WIFI successful, and red when connecting fail.

④WIFI Setting: Set Password for WIFI to be connected. If WIFI connected, password would be auto filled. And you should delete WIFI before modify password.

Delete: Delete record of WIFI selected.

7.2.2.2 Other Functions

SMTP: To be realized.

FTP: To be realized.

eMail: To be realized.

Cloud: To be realized.

Protocol: To be realized.

QoS: To be realized.

Https: To be realized.

7.3 Video

7.3.1 Encoder Param

Stream Type	Main Stream	Video Type	Composite Stream
Resolution	2688*1520	RateControl Mode	CBR
Image Quality	High	FPS	25
Video Encoder Type	H.265	Smart	Open
Encoder Complexity	High	SVC	Close
Maximum Bitrate	8192	Minimum Bitrate	2000
I Frame Interval	50	Rate Smooth	50

Save

Stream Type: Support Main Stream, Sub Stream, Third Stream. Different stream type needs different setting.

Video Type: Support Video Stream and Composite Stream. To be realize.

Resolution: Adjust video resolution.

Rate Control Mode: Support CBR and VBR. Set CBR to using default rate.

Image Quality: Set image quality. When Rate Control Mode is CBR, this function is disabled.

FPS: Frames Per Second.

Video Encoder Type: Support H.264 and H.265.

Smart: When smart on, ROI, I Frame Interval, Rate Control Mode, SVC, Image Quality and Rate Smooth are disabled, but you could set Minimum Bitrate. Before switching Smart, application would be restarted.

Encoder Complexity: With increment of it, Image Quality is improved. To be realized.

SVC: To be realized.

Maximum Bitrate: Set Maximum Bitrate.

Minimum Bitrate: Use to calculate average with Maximum Bitrate.

I Frame Interval: Gap between two I Frame.

Rate Smooth: To be realized.

7.3.2 Advanced Encoder

qp	Main Stream ▼					Save
qp_init	24	qp_step	4	qp_min	12	
qp_max	48	min_i_qp	10	max_i_qp	20	
split	Main Stream ▼					Save
mode	0	size	1024			

Temporarily set the underlying parameters, which are mainly used for developer debugging. The interface setting parameters will not be saved.

7.3.3 ROI

Set the interest area of different streams, each stream can be set up to 4 types of areas.

①Preview/Drawing: Click the drawing area to draw, the mouse can drag the area of interest, and click the adjustment points around the area of interest to adjust the size of the area of interest.

Del: Clear the drawing frame in the current area.

Remark: Draw at most one area of interest in a single area

②Setting: Select the stream, area number, and upgrade level to be set.

7.3.4 Region Crop

Crop the camera area, the specific effect can be checked in the preview interface(to be realized).

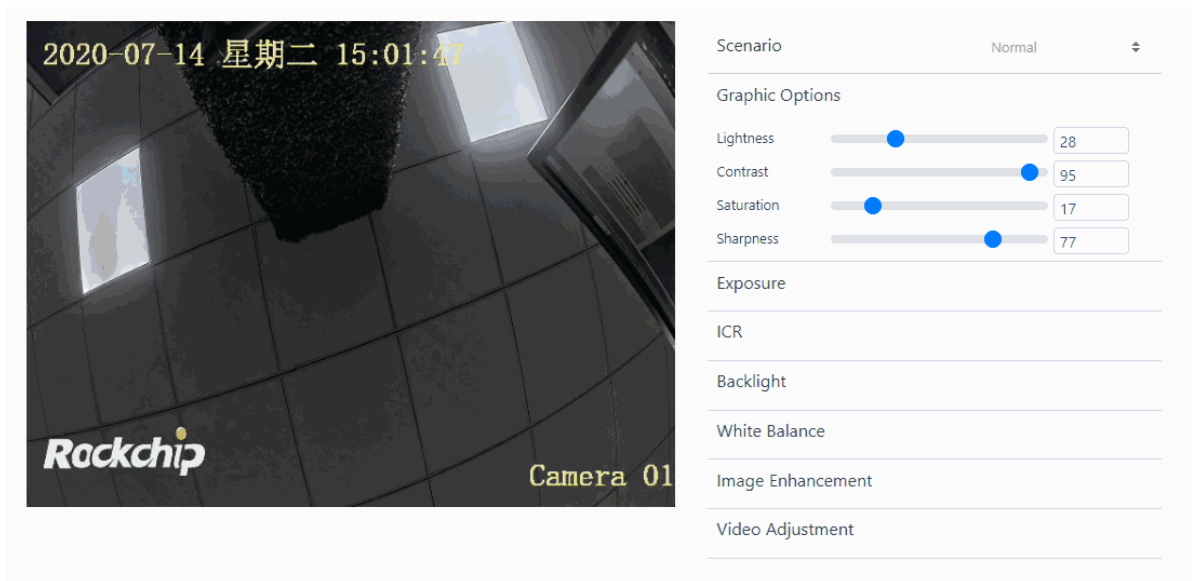
Remark: Only the third stream is supported, and the area size can only be set by the resolution, and cannot be adjusted manually.

7.4 Audio

The current default encoding is MP2, which only supports input volume adjustment, and other functions are not yet implemented.

7.5 Image

7.5.1 ISP



①Scenario: Switch the scene mode of the network camera, this function is not implemented yet.

②Graphic Options: Set video brightness, contrast, saturation, sharpness.

③Exposure: Currently only supports exposure time and gain adjustment.

④ICR: Support ICR mode, filter time, adjustment of fill light mode. Sensitivity adjustment has not yet been realized.

ICR mode: In "day" mode, the image is in color, and in "night" mode, the image is in black and white.

Filter Time: It is adjustable from 5 s to 120 s. When the ambient illuminance meets the conversion requirements and the holding time exceeds the time threshold, the day and night switching will be performed.

Sensitive: Corresponding night mode to day mode transition threshold. The higher the sensitivity, the easier it is to switch to day mode and the harder it is to switch to night mode; the lower the sensitivity, the easier it is to switch to night mode and the harder it is to switch to day mode.

⑥BLC: Set the white balance mode, support "Manual White Balance", "Auto White Balance 1", "Locking White Balance", "Fluorescent Light", "Incandescent", "Warm Light" and "Natural Light".

Manual White Balance: Support Red, Blue gain adjustment in this mode.

Locking White Balance: In this mode, the current color correction matrix will be locked.

If the actual using scene is a fixed light type, you can choose the last four options according to the actual situation.

⑦Image Enhancement: Set DNR, Dehaze, Gray Range, FEC.

DNR: Reduce image noise. In normal mode, adjust the noise reduction level. In expert mode, time domain and spatial domain noise reduction can be set.

Dehaze: You can choose "On" and "Off". After turning on this function, you can improve the visibility of objects in the water mist weather video screen to a certain extent.

Gray Range: "[0-255]" and "[16-235]" can be selected, and users can select the grayscale range of the video encoding according to actual needs.

FEC: You can choose "on" and "off". After turning on this function, the distortion of the screen edge can be reduced to a certain extent.

⑧Video Adjustment: Only the Video Standard is currently supported.

7.5.2 OSD

Set the OSD font style and OSD content.

①Preview: Drag to set the OSD coordinates, and preview the OSD setting effect after saving.

②Setting: Configure the OSD. The OSD attribute currently only supports opacity and no flickering; the minimum margin of the OSD can be set only in the GB mode.

③Content: Set OSD content.

Remark: If the channel name and character superimposed characters are too long, the part beyond the display area will not be displayed.

Character overlay currently only supports the setting of two overlay areas, and it is expected that up to 8 character overlays can be set.

7.5.3 Privacy Cover

Drawing: Draw the occluded area of the video, currently at most 1 area is drawn, and it is planned to draw at most 4 areas.

Del: Clear the drawing frame in the current area.

Remark: Currently only the first drawing area takes effect.

7.5.4 Picture Mask

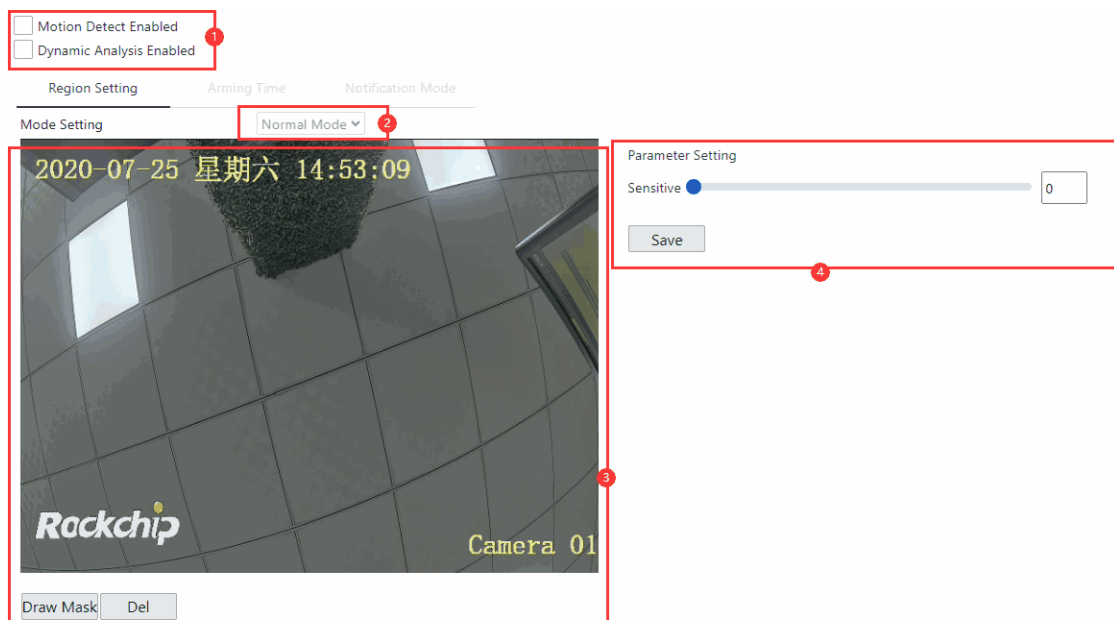
After adding the masked picture, the preview area will display a red frame in proportion. Drag the red frame to adjust the image position. The X and Y coordinates of the image are read-only and cannot be set manually.

Image Requirement: The picture format must be 24bit bmp, and the picture size must be less than 1MB.

7.6 Event

7.6.1 Motion Detect

7.6.1.1 Region Setting



①Enabled: Enable motion detection or motion analysis.

②Mode: Currently only supports normal mode.

③Preview/Drawing: Enter the drawing mode, click and drag the mouse in the preview area to draw the detection area.

Del: Clear the drawing frame in the current area.

④Setting: Set detection sensitivity.

7.6.1.2 Arming Time



Draw an arming time schedule, and set up to 8 different time intervals per day.

①Delete: Delete time block selected.

②Copy: When the mouse is in the drawing area, the copy function icon of the row appears. After clicking, select the date to be copied in the pop-up window, and synchronize the arming time block of the selected row to the corresponding date.

③Modify: Click the time block and enter the start and end time in the pop-up window to modify the time block. Or drag the modification points at both ends of the time block to modify the time block.

④Drawing: Click and drag the mouse in the drawing area to create an arming time block. The time block can be dragged freely. The start and end time will be displayed when dragging.

7.6.1.3 Notification Mode

<input type="checkbox"/> Normal Notification Enabled	<input type="checkbox"/> Alarm Output Enabled	<input type="checkbox"/> Video Notification Enabled
<input type="checkbox"/> Notification Mail	<input type="checkbox"/> A->1	<input type="checkbox"/> A1
<input type="checkbox"/> Notification Center		
<input type="checkbox"/> Notification FTP		

Save

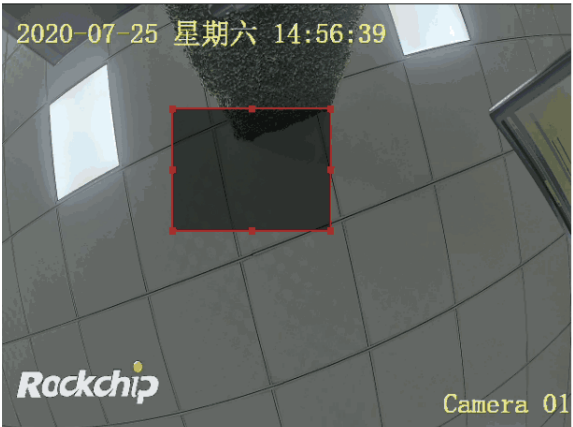
Select the detection notification mode, this function has not yet been implemented.

7.6.2 Intrusion Detection

7.6.2.1 Region Setting

☐ Intrusion Enabled

Region Setting Arming Time Notification Mode



Parameter Setting

Sensitive 50

Proportion 0 %

Time Threshold s

Save

Draw Mask Del

Set the invasion area, sensitivity, and percentage of invasion.

percentage: When the proportion of the invading object in the setting area is greater than the proportion setting, the system will judge it as an area intrusion.

7.6.2.2 Arming Time

The same as section 7.6.1.2 Arming time.

7.6.2.3 Notification Mode

The same as section 7.6.1.3 Arming time

7.6.3 Other Functions

Alarm Input: To be realized.

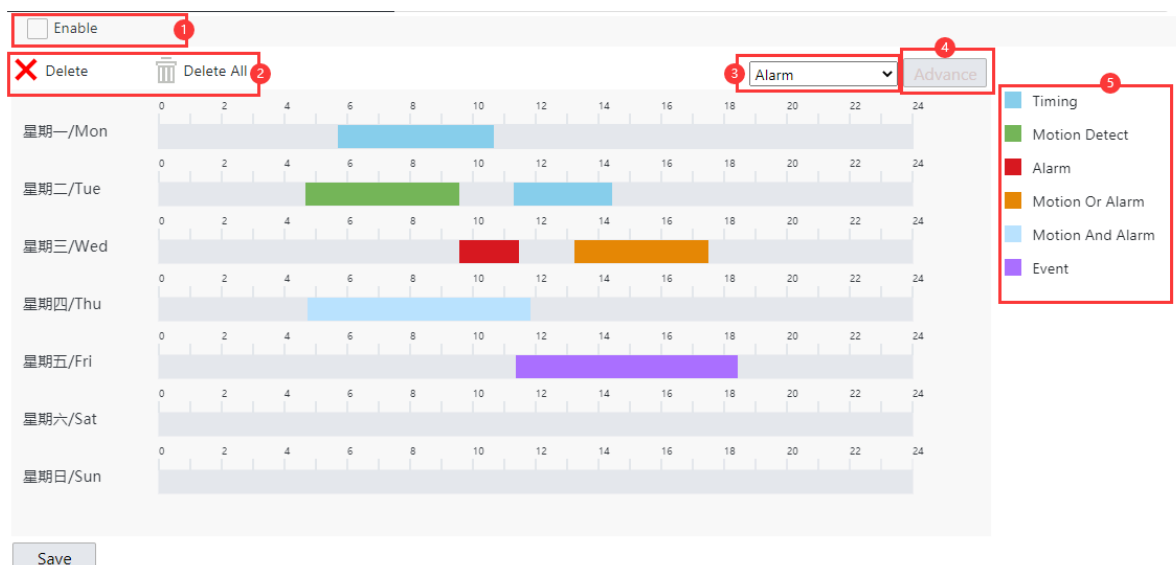
Alarm Output: To be realized.

Error: To be realized.

7.7 Storage

7.7.1 Plan Setting

7.7.1.1 Video Plan



Set the recording time interval by week.

①Enabled: Recording switch. After the recording plan is opened, the preview recording during the unplanned period will be automatically closed.

②Delete: Delete time block selected.

③Plan Type: Select the type of plan to be drawn, and then draw the corresponding plan time block in the drawing area after selection.

④Advanced Parameter: The specific interval of the design plan has not been realized yet.

⑤Plan legend: Legends of different types of plans.

Other functions are the same as section 7.6.1.3 Arming time.

7.7.1.2 Screenshot Plan

For advanced settings, see section 7.7.1.3 Capture Parameters, and other functions are The same as section 7.7.1.1 Recording Plan.

7.7.1.3 Screenshot Setting

- ①Interval: Automatically capture pictures regularly, and the interval of capturing pictures is 1000ms ~ 7day.
- ②Event: The snapshot is triggered under a specific event, the interval between snapshots is 1000 ~ 65535ms, and the number of snapshots is limited to 1~120.

7.7.2 Storage Manage

7.7.2.1 Hard Disk Management

Set disk quotas for recording and capturing functions.

- ①Fresh: Refresh disk information.
- ②Format: Format the disk selected in ③, eMMC does not support formatting.
- ③Format selection: Select the disk to be formatted. This function will not be available when there is no optional disk.
- ④Disk List: Click this disk information line to display the disk quotas of different disks, with the same function as ⑤.
- ⑤Disk Number: Select different disk numbers, the disk quotas of different disks will be displayed.
- ⑥Switch: Switch the storage disk to the disk displayed in the selected disk quota.

7.7.2.2 NAS

To be realized.

7.7.2.3 Cloud Storage

To be realized.

7.8 Intelligence Analysis

7.8.1 Mask Cover

Config

☒ Face Detection Enabled

☒ Face Recognition Enabled

☐ Overlay in Stream Enabled

☐ Overlay in Snap Enabled

Save

Currently, it only supports face detection, face recognition, overlay in stream, and overlay in snap switches.

Remark: When the face detection is turned off, others will be turned off synchronously and hidden.

The face recognition registration can only be performed when face recognition is enabled.

7.8.2 Mask Area

To be realized.

7.8.3 Rule Settings

To be realized.

7.8.4 Advanced Settings

To be realized.

7.9 Peripherals

It supports the data configuration of gates and display screens, without practical application. This item is an extended function and is only used by gate products. The realization of specific functions needs to be developed according to actual products.