

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	Linux 4.19
RK1808, RK1806	Linux 4.4

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.
V1.5.0	Allen Chen	2020-08-31	Add introduction about direct connection.
V1.6.0	Allen Chen	2021-02-19	Update introduction about Web player and ISP.
V1.6.1	Ruby Zhang	2021-03-15	Update product version information

Contents

Web Configuration

1. Functions
2. User Authentication
3. Header Navigation
4. Preview
5. Review
 - 5.1 Video Record
 - 5.2 Snapshot
6. Face Recognition Manager
 - 6.1 Member List
 - 6.2 Single Registration
 - 6.3 Batch Registration
 - 6.3.1 Introduce
 - 6.3.2 Import speed
 - 6.4 Other Functions
 - 6.5 Usage
7. Config
 - 7.1 System
 - 7.1.1 Setting
 - 7.1.1.1 Basic Setting
 - 7.1.1.2 Time Setting
 - 7.1.2 Maintain
 - 7.1.2.1 Upgrade
 - 7.1.2.2 Log
 - 7.1.3 User
 - 7.1.4 Security
 - 7.2 Network
 - 7.2.1 Basic
 - 7.2.2 Advance
 - 7.2.2.1 WIFI
 - 7.2.2.2 Other Functions
 - 7.3 Video
 - 7.3.1 Encoder Param
 - 7.3.2 Advanced Encoder
 - 7.3.3 ROI
 - 7.3.4 Region Crop
 - 7.4 Audio
 - 7.5 Image
 - 7.5.1 ISP
 - 7.5.2 OSD
 - 7.5.3 Privacy Cover
 - 7.5.4 Picture Mask
 - 7.6 Event
 - 7.6.1 Motion Detect
 - 7.6.1.1 Region Setting
 - 7.6.1.2 Arming Time
 - 7.6.1.3 Notification Mode
 - 7.6.2 Intrusion Detection
 - 7.6.2.1 Region Setting
 - 7.6.2.2 Arming Time
 - 7.6.2.3 Notification Mode
 - 7.6.3 Other Functions
 - 7.7 Storage
 - 7.7.1 Plan Setting
 - 7.7.1.1 Video Plan

- 7.7.1.2 Screenshot Plan
 - 7.7.1.3 Screenshot Setting
 - 7.7.2 Storage Manage
 - 7.7.2.1 Hard Disk Management
 - 7.7.2.2 NAS
 - 7.7.2.3 Cloud Storage
- 7.8 Intelligence Analysis
 - 7.8.1 Mask Cover
 - 7.8.2 Mask Area
 - 7.8.3 Rule Settings
 - 7.8.4 Advanced Settings
- 7.9 Peripherals
- 8. Directly connected

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

Please Sign In **Rockchip**

User Name

Password

1

2 Auto Login Within One Month ▾

Sign In

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.

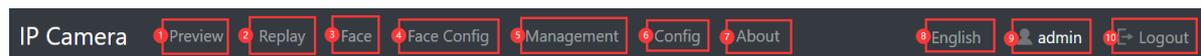
Auto Login Within One Month: Login without password within 30 days.

Browser requirements: Chrome 79+, Firefox 68+, Edge 80+, Safari 12.1+.

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.

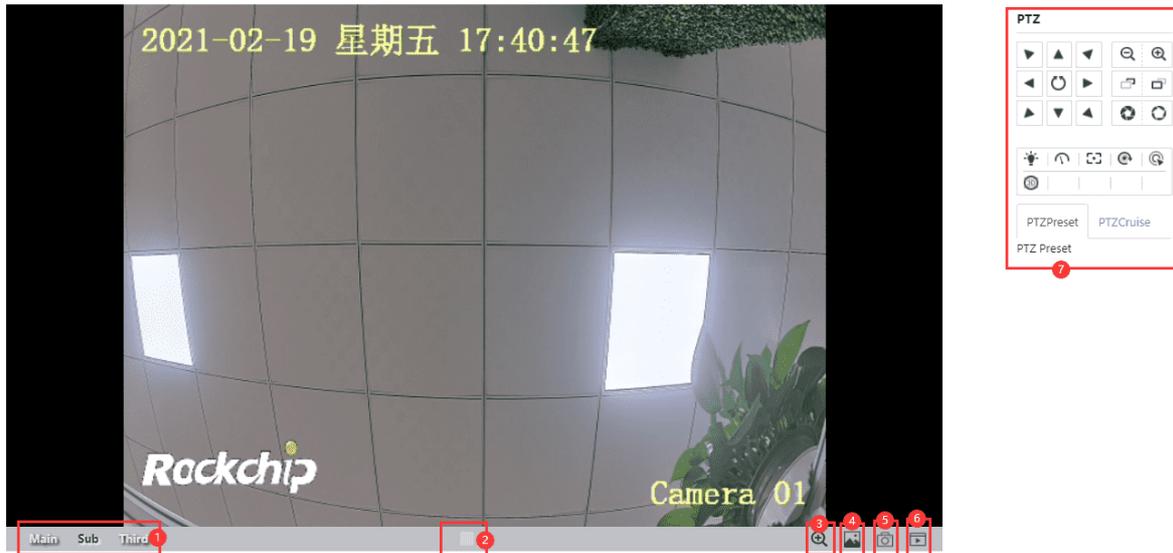
⑦About: View copyright information.

⑧Language: Double click to switch English/Chinese.

⑨User Name: Show User name.

⑩Logout: Logout and enter login page.

4. Preview



- ①Switch Stream: Switch stream to play.
- ②Player menu: Support stop and play.
- ③Enlarge: Partially enlarge the preview content.
- ④Screenshot: screenshot on web.
- ⑤Snapshot: Snapshot in device. The record can be viewed in the [Snapshot](#) (only supported in mainstream).
- ⑥Recording: Recording switch. When switch on, color of this button would alter to blue. The record can be viewed in the [Video Record](#) (only supported in mainstream).
- ⑦PTZ: IPC PTZ. To be realized.

Remark: The player only supports h264 format.

5. Review

Inquire snap and record.

5.1 Video Record

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

- ①Inquire: Inquire by type and time.
- ②Preview: Preview record when double click on file.
- ③Download: Download file selected.
- ④Delete: Delete file selected.

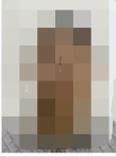
5.2 Snapshot

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

- 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 style="border: 1px solid red; padding: 2px;"> Modify Delete </div>	test		<div style="border: 1px solid red; padding: 2px;"> Success </div>	White List	0	Male	2020-08-13T19:41:09

总共 1 条 当前 1 条 << < 1/1 > >>

Member Manage

Switch Mode: delete 3

Search Condition
Search By Condition ▾

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

End Time
2020/08/13 23:59:59

Type

Gender

Age
0 - 100

Card Number

Search 1

Output 2

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)

List Type

Access Card

Type

Name

Gender

Nation

Identification

ID Card

Birthday

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 web-based configuration interface for time settings. It is divided into several sections:

- DST Enabled:** A checkbox labeled "DST Enabled" with a red circle and the number 1 next to it.
- Timezone:** A dropdown menu showing "(UTC+08:00) Beijing, Chongqing, Hong Kong Special Administrative Region, Urumqi" with a red circle and the number 2 next to it.
- NTP Calibration:** A section with a blue toggle switch and a red circle and the number 3 next to it. It contains:
 - NTP Services:** A text input field containing "122.224.9.29 94.130.49.186".
 - Calibration Interval:** A text input field containing "60" followed by the label "Minutes".
 - test:** A button labeled "test" with a red circle and the number 4 next to it.
- Manual Calibration:** A section with a grey toggle switch and a red circle and the number 5 next to it. It contains:
 - Time of Device:** A text input field containing "2020/07/14 11:44:53".
 - Set Time:** A text input field containing "2020/07/14 11:42:41" and a checkbox labeled "Sync Local Time".
 - Save:** A button labeled "Save".

- 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. 1

Restore Default Setting

Restore default setting simply. 2

Output Information

Device Parameter 3

Include log, system information and so on. 4

Input Device Parameter

Device Parameter No File Selected 5

Status

Upgrade

Upgrade File No File Selected 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			<input type="button" value="Modify"/>	<input type="button" value="Delete"/>	<input type="button" value="Add"/>	<input type="button" value="Fresh"/>
ID	User Name	Authority				
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 displays a user interface for managing Wi-Fi settings. At the top left, there is an 'Enable' checkbox (1). To the right is a 'Scan' button (2). Below these is a table titled 'Wi-Fi List' (3) with the following 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 is a 'Wi-Fi Setting' panel (4) containing a 'Wi-Fi AutoConnect' checkbox, input fields for 'Wi-Fi Name' and 'Wi-Fi Password', and 'Connect' and 'Delete' buttons.

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

2020-07-14 星期二 14:50:24

Rockchip

Camera 01

Draw Mask Del

Stream Type

Main Stream ▼

Persistent Area Enable

Area ID

1 ▼

Quality Level

3 ▼

Area Name

test

Save

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

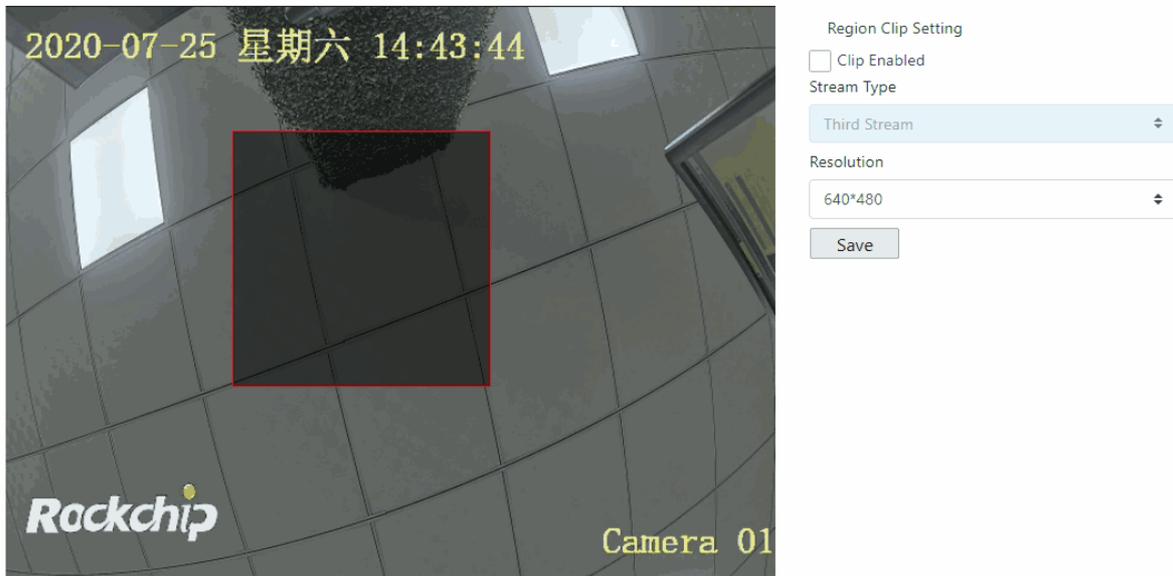
①Preview/Drawing: Click the drawing area to draw, the mouse can drag the area of interest, and click the adjustment points around the area of interest to adjust the size of the area of interest.

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.

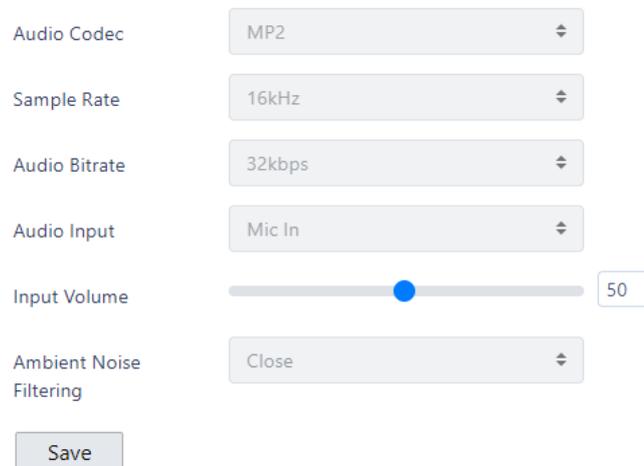
7.3.4 Region Crop



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.

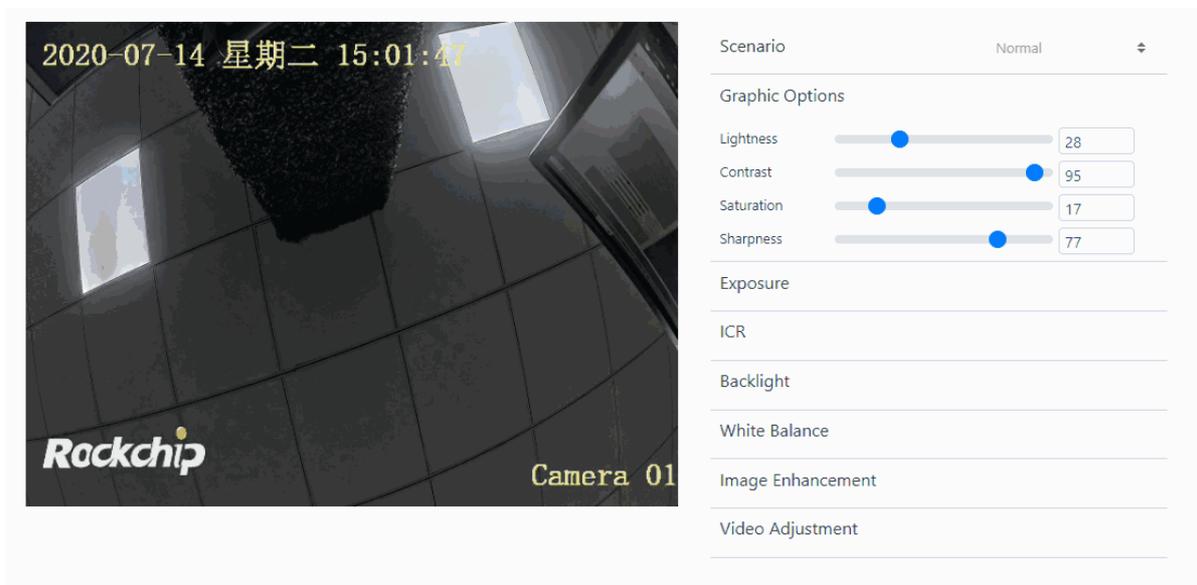
7.4 Audio



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: It supports two modes of "Auto Exposure" and "Manual Exposure", and the adjustment of exposure time and gain is supported in manual exposure mode.

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.

Note: After configuring other modes and then configuring automatic mode, automatic mode cannot be used for automatic switching.

⑤Backlight: Support HDR and HDR level configuration.

HDR: It can better reflect the visual effects in the real environment.

⑥BLC: Set the white balance mode, support "Manual White Balance", "Auto White Balance".

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

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

DNR: Reduce image noise. Support time domain noise reduction, air domain noise reduction and comprehensive noise reduction.

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.

Correction: Support LDCH and FEC correction.

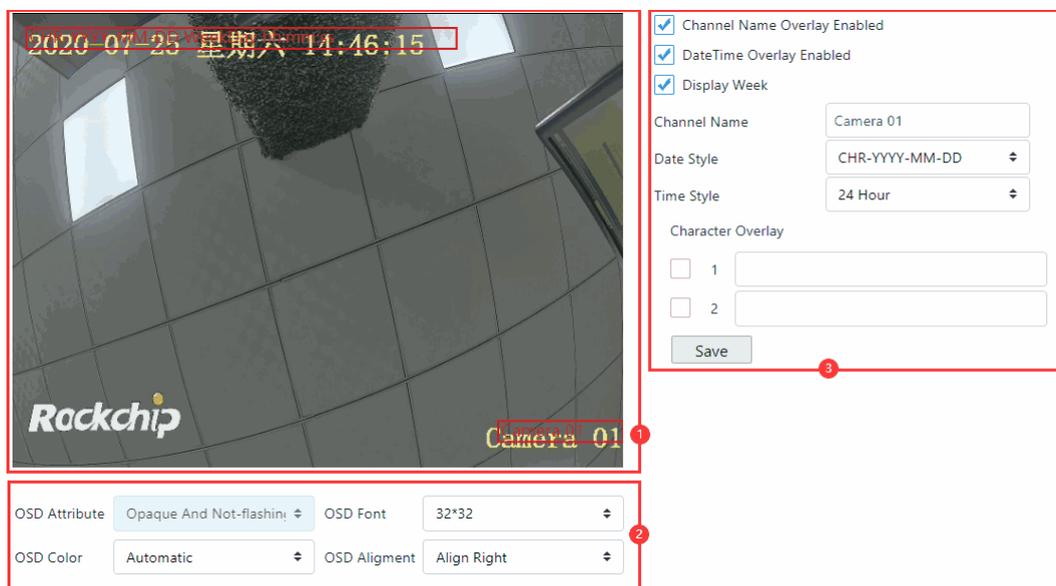
LDCH: Distortion correction in the horizontal direction supports adjustment of the correction level.

FEC: Distortion correction in horizontal and vertical directions, support adjustment of correction level.

⑧Video Adjustment: Support the adjustment of video standard and the configuration of video mirroring mode.

Mirror: Support flip, mirror, center symmetrical mode configuration.

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.

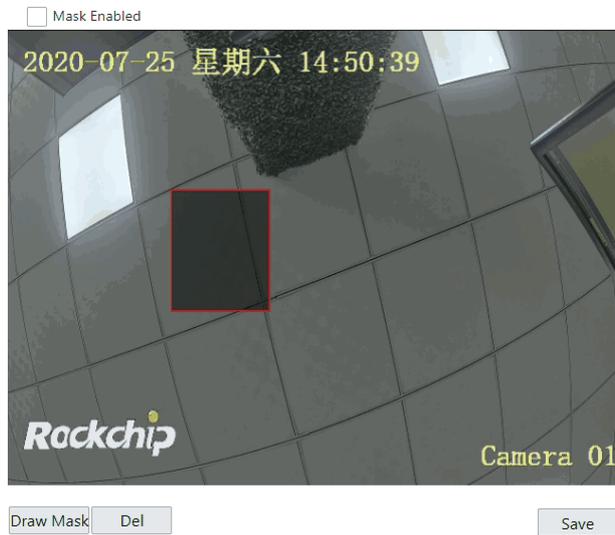
②Setting: Configure the OSD. The OSD attribute currently only supports opacity and no flickering; the minimum margin of the OSD can be set only in the GB mode.

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.

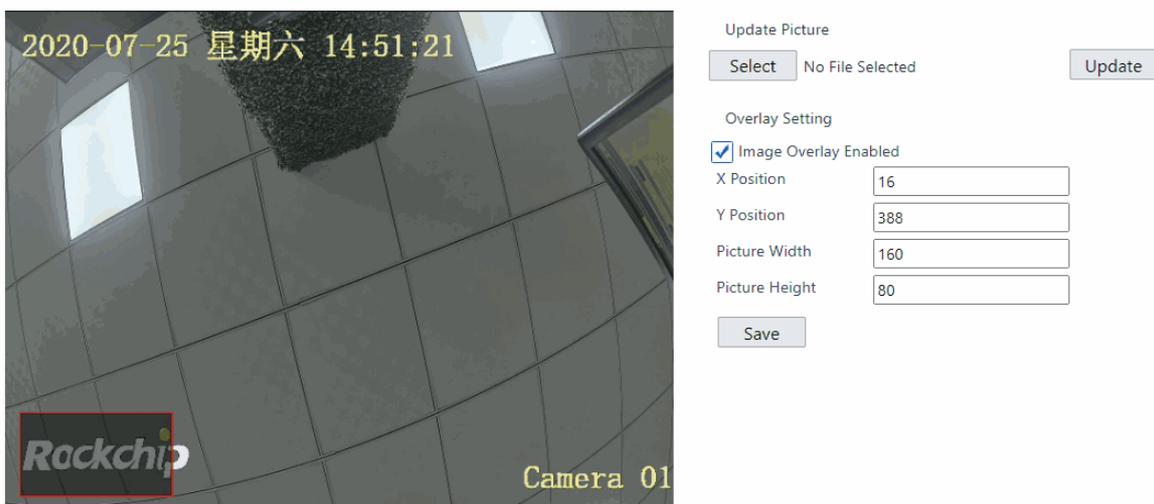
7.5.3 Privacy Cover



Drawing: Draw the occluded area of the video. Currently, only 1 area is supported.

Del: Clear the drawing frame in the current area.

7.5.4 Picture Mask



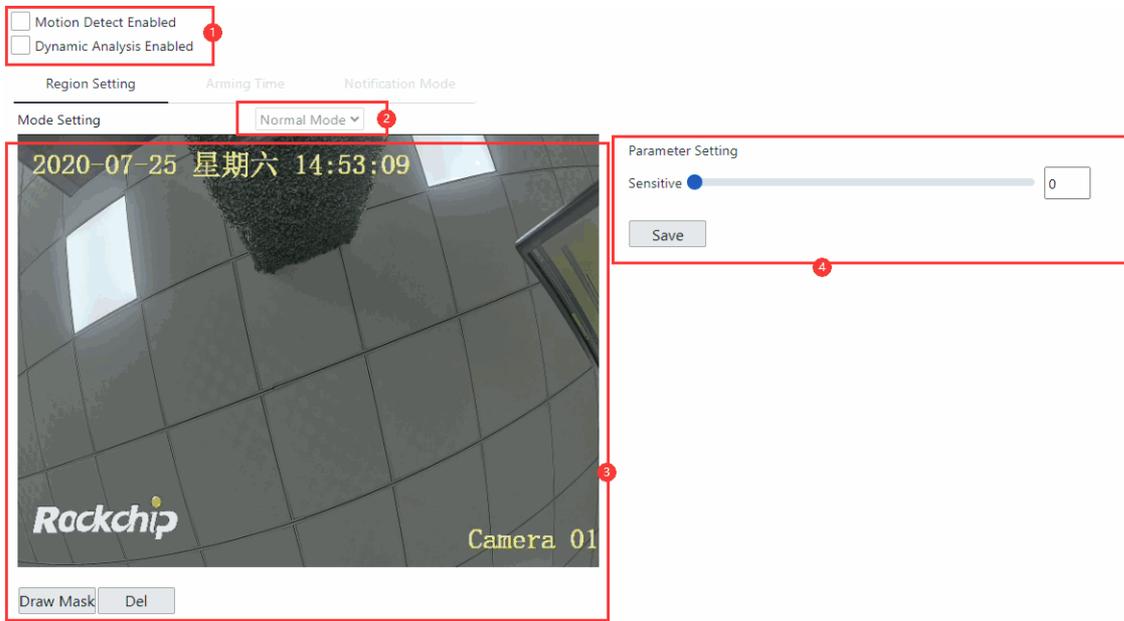
After adding the masked picture, the preview area will display a red frame in proportion. Drag the red frame to adjust the image position. The X and Y coordinates of the image are read-only and cannot be set manually.

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.

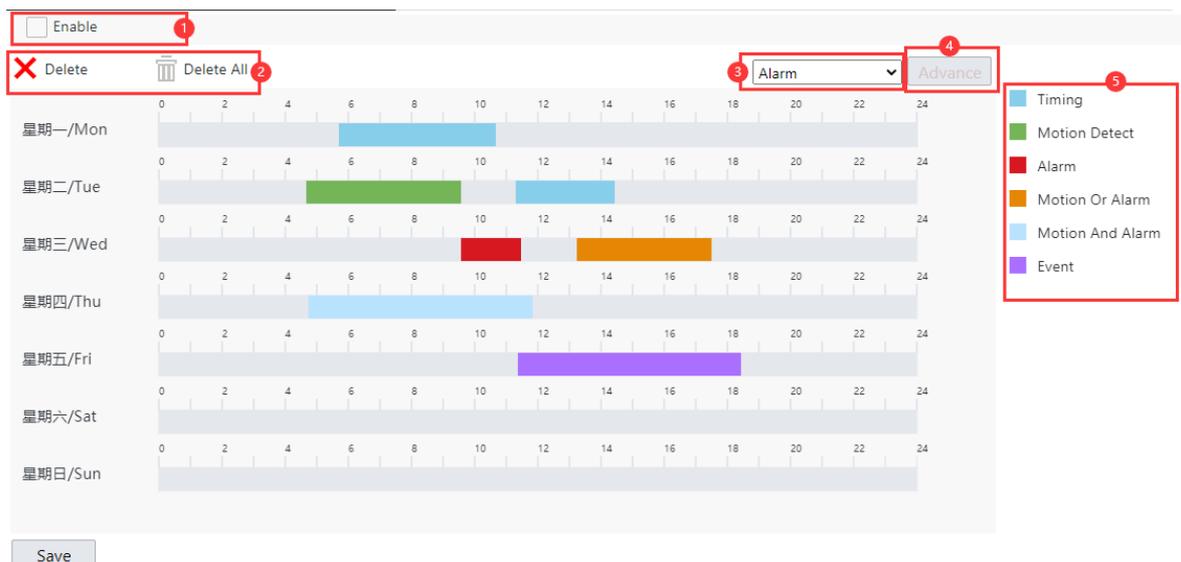
Alarm Output: To be realized.

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

The screenshot shows two sections: 'Timing' and 'Event Trigger'. Both sections have a 'Screenshot By [Type] Enabled' checkbox. The 'Timing' section has 'Image Type' (JPEG), 'Resolution' (2688*1520), 'Image Quality' (High), and 'Screenshot Interval' (10) with a 'Seconds' dropdown. The 'Event Trigger' section has 'Image Type' (JPEG), 'Resolution' (2688*1520), 'Image Quality' (High), 'Screenshot Interval' (1) with a 'Seconds' dropdown, and 'Number of Screenshot' (4). A 'Save' button is at the bottom.

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

The interface shows 'Hard Disk Management' with a table of disks and a 'Quota' section. The table has columns: Disk Number, Disk Name, Capacity(GB), Remaining Space(GB), Status, Ttype, and Attribute. The 'Quota' section includes 'Current Storage Disk Number' (3), 'Picture Capacity' (0 GB), 'Picture Remaining Space' (0 GB), 'Video Capacity' (0 GB), 'Video Remaining Space' (0 GB), 'Snapshot Quota Percentage' (5%), and 'Video Quota Percentage' (45%). A 'Switch' button is at the bottom.

	Disk Number	Disk Name	Capacity(GB)	Remaining Space(GB)	Status	Ttype	Attribute
<input type="checkbox"/>	3	Emmc	12.133	12.064	Mounted	ext2	Readonly
<input type="checkbox"/>	1	SD Card	0	0	Unmounted		
<input type="checkbox"/>	2	U Disk	0	0	Unmounted		

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

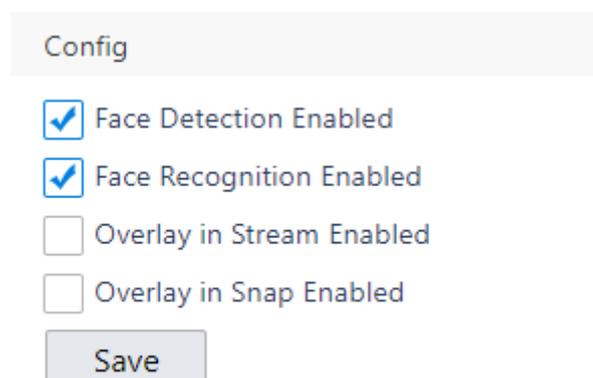
To be realized.

7.7.2.3 Cloud Storage

To be realized.

7.8 Intelligence Analysis

7.8.1 Mask Cover



The image shows a configuration window titled "Config" with a light gray background. It contains four settings, each with a checkbox and a label:

- Face Detection Enabled
- Face Recognition Enabled
- Overlay in Stream Enabled
- Overlay in Snap Enabled

At the bottom of the window is a "Save" button.

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.

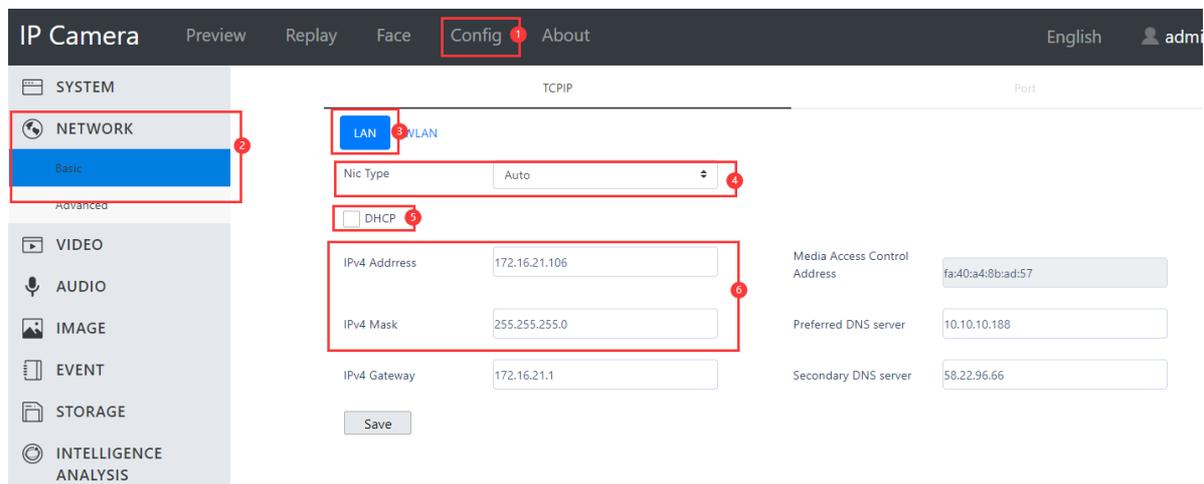
7.9 Peripherals

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.

8. Directly connected

When debugging, use the device to directly connect to the PC as follows:

1. Set the PC and the device to be in the same network segment IP, and the net mask is 255.255.255.0;
2. Use the web page to access the login address and log in;
3. As shown in the figure below, enter the config/network/basic/TCPIP/LAN, set the network card to automatic, close the automatic acquisition, and set the IP to the device IP set before, the IPv4 net mask to 255.255.255.0, and the rest of the settings meet the IP Standard can be saved.



4. Perform web operations.

Note: If the above settings are not performed, the preview, download and other functions will be abnormal.