

## VNNOX One-Stop Cloud Platform

V7.46.0 NS180100116



## Contents

| Contents                       | i  |
|--------------------------------|----|
| 1 Overview                     | 1  |
| 2 Features                     | 2  |
| 3 Applications                 | 3  |
| 4 Operating Instructions       | 4  |
| 4.1 Login                      |    |
| 4.2 Monitoring Information     |    |
| 4.3 Search                     |    |
| 4.4 Main Menu                  | 6  |
| 4.5 Update Log                 | 6  |
| 4.6 Language Settings          | 6  |
| 4.7 Map Switch                 |    |
| 4.8 User Settings              |    |
| 4.8.1 Personal Settings        | 7  |
| 4.8.2 Player Authentication    |    |
| 4.8.3 User Management          | 7  |
| 4.8.4 Organization Information |    |
| 4.8.5 Roles                    |    |
| 4.8.6 Workgroups               |    |
| 4.9 Feedback                   |    |
| 4.10 System Switching          |    |
| 5 Corporate Management         | 9  |
| 6 Screen Management            | 10 |
| 6.1 Screen List                |    |
| 6.1.1 Basic Information        | 11 |
| 6.1.2 Monitoring Picture       |    |
| 6.1.3 Error Alarm Details      |    |
| 6.1.4 Brightness               |    |
| 6.1.5 Real Time Status         |    |
| 6.1.6 Individual LED Detection |    |
| 6.1.7 Workgroup                |    |
| 6.2 Monitoring                 |    |

| 7 Reports                              | .23  |
|--|------|
| 7.1 Periodic Inspection Reports        | . 23 |
| 7.1.1 Basic Information Configuration  | . 24 |
| 7.1.2 Associated screen settings       | . 25 |
| 7.2 Custom Reports                     | . 25 |
| 7.2.1 Creating Reports                 | . 26 |
| 7.2.2 Edit Reports                     | . 27 |
| 7.2.3 Deleting Reports                 | . 28 |
| 8 Advanced Settings                    | .29  |
| 8.1 Tag Management                     | . 29 |
| 8.1.1 Add                              | . 29 |
| 8.1.2 Edit                             | . 30 |
| 8.2 Threshold Templates                | . 30 |
| 8.2.1 Add                              | . 30 |
| 8.2.2 Edit                             |      |
| 8.3 Brightness Templates               |      |
| 8.3.1 Add                              |      |
| 8.3.2 Edit                             |      |
| 8.4 Individual LED Detection Templates |      |
| 8.4.1 Add                              | . 32 |
| 8.4.2 Edit                             |      |
| 9 IPC Configuration                    | .34  |
| 9.1 Before You Begin                   | . 34 |
| 9.2 Network Parameter Configuration    | . 35 |
| 9.3 Time Settings                      | . 36 |
| 9.4 Image Display Settings             | . 37 |
| 9.5 FTP Uploading Parameter Settings   | . 38 |
| 9.4 Image Display Settings             |      |



With LED display being widely used in various industries such as advertisement, stage, traffic, sports, etc., the business scope of LED display services has been expanded rapidly from original city business to business throughout the country, even international business. LED displays distributed from place to place may have unexpected problems. As a result, how to manage and monitor large quantities of displays uniformly and guarantee normal operation have become pressing problems to be solved in this industry.

For these problems, NovaStar has launched the iCare system globally, an optimized and most practical cloud monitoring and management solution. Based on broadband Internet, iCare can provide a centralized monitoring solution for the multi-screen management system of LED display.

The iCare server is the core of system. It is deployed in Internet Data Center (IDC) and managed through B/S mode. User can log in the website and register an account to acquire access to the system. Each user can register multiple displays without limitation so as to realize monitoring by specified persons, duty distribution, and knowing the operation status of each display at any time.

## **2** Features

• Centralized Management

Based on a broadband Internet architecture, it supports standard HTTPS (HTTP+SSL) and FTPS (FTP+SSL) servers. With stable and high-speed data transmission, it allows to centralize the management and monitoring of data.

Comprehensive Monitoring

To monitor the working conditions of sending cards, receiving cards, monitoring cards and multifunction cards of the LED display control system.

To detect environmental parameters such as temperature, humidity, smoke of cabinet.

To monitor cabinet supply voltage and fan revolving speed of LED display.

• Automatic Alarm

Monitoring server can automatically collect working condition parameters of all display connected to the system. All monitoring parameters are scanned by the given parameters. It will send e-mails to alarm if the alarm conditions are met.

Remote Monitoring and Control

Users can use their accounts to log in the monitoring server, search and view monitoring data through browser and snapshot on site. Working condition and actual situation on site of LED display can be gotten timely and accurately.

Multi-Device Access

Supported devices: PC, mobile phones with Android V4.0 or above, iPhone, iPad, etc.

Supported systems: synchronous M3 and asynchronous Pluto series control system of NovaStar.

Intuitive and Efficient

To intuitively report status, alarm, error and location of LED display.

Information Sharing

Information of LED display can be shared with other users.

• Display handover

LED display managed by one user can be handed over to another user.



This software is applied to the field of LED display management system.

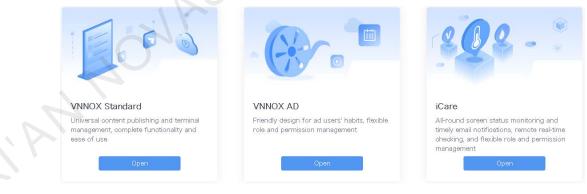
The centralized play& control system based on this software is widely applied in various fields like industry, traffic, commercials, information release, sport events, etc.

# **4** Operating Instructions

## 4.1 Login

The iCare server has adopted B/S architecture. After users log into iCare, they can register the screens to be monitored (support for synchronous and asynchronous LED displays of NovaStar) at their accounts. In this way, users can log into the account to monitor those screens remotely and manage the screen information uniformly at any time.

- Step 1 Visit www.en.vnnox.com and click Login at the top right of the page.
- Step 2 Select the server node and click OK.
- Step 3 Enter the account name and password, and click **Log In**. The service login page is displayed.



#### Figure 4-1 Service login page

Step 4 Click any position of the image of iCare to enter its homepage.

When you enter iCare for the first time, the default system setting prompt is displayed. After you set iCare as the default system, the homepage of iCare will be displayed directly when you click **Log In**.



#### Figure 4-2 iCare

## 4.2 Monitoring Information

iCare uses map for precise locating and recording the number of faults. Different colors are used to indicate current status of LED screens. Gray indicates the screen is offline, red indicates it has errors, yellow indicates it has alarms and green indicates it works normally.

Click on the screen to view its real-time monitoring information.



Figure 4-3 Screen information

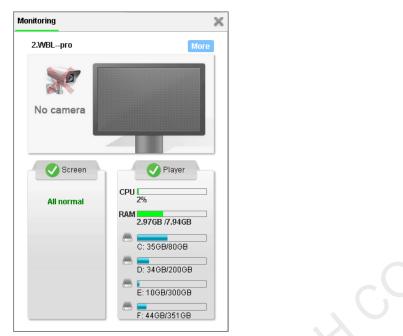


Figure 4-4 Real-time monitoring information

Then click **More** to view its basic information, monitoring picture, error alarm details, brightness, real-time status and individual LED detection results.

## 4.3 Search

In the search box at the top right of homepage, type a device name or an address to search for screens.

## 4.4 Main Menu

Move mouse to II at the top right to show the main menu and submenus.

## 4.5 Update Log

Click at the top right to check system update logs.

## 4.6 Language Settings

Click State the top right to set the system language.

## 4.7 Map Switch

The system uses Baidu Map by default. Users can click on Bing Map to switch to Bing map.

## 4.8 User Settings

## 4.8.1 Personal Settings

Choose – > Personal Settings to set your account information.

- **Basic Information**: View the roles of the user and set your nickname and email language.
- Security: Change the bound phone number and email, and the password.
- Workgroup: View the workgroup that the user belongs to.

## 4.8.2 Player Authentication

Choose > Player Authentication to jump to the Player Authentication page of cloud platform to view, change or copy player authentication information.

For detailed operations, see **Cloud Platform Settings** > **Player Authentication** in the online help.

## 4.8.3 User Management

Choose **Sumple State** State St

For detailed operations, see **Cloud Platform Settings** > **User Management** in the online help.

## 4.8.4 Organization Information

Choose **Organization Info** to jump to the **Organization Info** page to set the information such as website address, name, copyright and logo of the VNNOX system.

For detailed operations, see **Cloud Platform Settings** > **Organization Info** in the online help.

## 4.8.5 Roles

Choose **A** > **Roles** to jump to iCare role management page of cloud platform to view, create, change or delete roles.

For detailed operations, see **Cloud Platform Settings** > **Roles** in the online help.

## 4.8.6 Workgroups

Choose **Workgroups** to jump to iCare workgroup management page of cloud platform to view, create, change or delete workgroups.

For detailed operations, see **Cloud Platform Settings** > **Workgroups** in the online help.

## 4.9 Feedback

- Step 1 At the bottom right of the homepage, click **Feedback** to enter the page where you can give your feedback.
- Step 2 Select the type of your feedback, enter your feedback and contact information. You can upload attachments if necessary.
- Step 3 Click Submit.

## 4.10 System Switching

Click 🗮 at the top left to switch between VNNOX homepage, VNNOX Standard, VNNOX AD and iCare.



Choose **Corporate Management** > **SMTP Server** to enter email service configuration page.

- Send Test Email: Test whether emails can be sent normally after email service is configured.
- **Restore Defaults**: Clear current email service configuration.

You are advised to use SSL which can increase the security for sending emails.



## 6.1 Screen List

Select > Screen Management > Screen List to enter the screen list page.

#### Filter

If there are too many screens, you can use the filter function on the left of the page to quickly find out the screens you want. When you are selecting the filter criteria, the screen list shows the filter results in real time.

#### Search

In the search box, type a screen name or an address and click **Search** to search for screens.

## Real-Time Picture of Screen

Click at the top right of the page. The real-time picture(s) captured by the enabled camera(s) supported by the current screen will be shown as tiled.

#### List Configuration

Click at the top right of the page. In the dialog box that appears, configure the parameters displayed in the list.

| List configuration   | ×         |
|--|-----------|
| More than H 30 m if the status update time is not be updated,use to ma | ark it.   |
| Submi  | it Cancel |

List View

Click at the top right of the page. In the dialog box that appears, select the items to be shown in the screen list.

#### Scree Configuration

Click a screen name to enter its configuration page.

#### **Batch Settings**

Select a screen and click **Configuration**, or select multiple screens and click **Batch Settings** to enter the batch configuration page.

## 6.1.1 Basic Information

Click the name of the target screen to enter its **Basic Information** page which includes **Screen Information** and **Monitoring Notification** tabs.

#### **Screen Information**

Set the basic information of a screen, such as name, address, time zone, etc.

#### Figure 6-1 Screen information

| Basic Information  | Monitoring Picture   | Error Alarm Details         | Brightness          | Real Time Status         | Individual LED Detecti  | ion |
|--------------------|----------------------|-----------------------------|---------------------|--------------------------|-------------------------|-----|
| Screen Information | Monitoring Notifica  | tion                        |                     |                          |                         |     |
|                    |                      |                             |                     |                          |                         |     |
|                    | * Name               | test screen 2               |                     |                          |                         |     |
|                    | Address              |                             |                     |                          |                         | ľ   |
|                    | Time zone            | UTC+08:00 BeiJing,0         | ChongQing,Hor       | ig kong,Urumqi,Irkuts    | k(RTZ 7),Kuala Lumpur,S | •   |
|                    | Daylight saving time | Disabled                    |                     |                          |                         | •   |
|                    |                      | The settings will be applie | ed on all screens r | egistered on your termin | al:test screen 2        |     |
|                    | Tag                  | 🔲 q1                        |                     |                          |                         |     |
|                    |                      |                             |                     |                          |                         |     |
|                    |                      |                             |                     |                          |                         |     |
|                    | Size(width*height)   | 64*32                       |                     |                          |                         |     |
|                    | Device type          | M3                          |                     |                          |                         |     |
|                    | Administrator        | nova_wd                     |                     |                          |                         |     |
|                    |                      | Submit                      |                     |                          |                         |     |

#### **Monitoring Notification**

Set email notification and SMS notification.

| Basic Information  | Monitoring Picture    | Error Alarm Details                          | Brightness        | Real Time Status          | Individual LED Detection          |
|--------------------|-----------------------|--|-------------------|---------------------------|-----------------------------------|
| Screen Information | Monitoring Notifica   | tion   |                   |                           |                                   |
|                    | Email                 | Support up to 3 em                           | ail addresses,sej | parated by comma.Do       | not support QQ email              |
|                    | SMS                   | China 86                                     | ¥                 |                           |                                   |
| r                  | Notification Language | Send SMS only when fau                       | lts occur         |                           |                                   |
|                    | Working Cycle         | Everyday                                     |                   |                           |                                   |
|                    | Working Time          | 06:00  | (                 | ~ 22:00                   |                                   |
|                    |                       | Outside this period, fault<br>sent<br>Submit | /alarm/brightness | adjustment failure/online | e/offline notifications would not |

Figure 6-2 Monitoring notification

## 6.1.2 Monitoring Picture

Click a screen name to enter the Monitoring Picture page.

- Select the **Latest** tab to view the real-time monitoring pictures captured by different cameras.
- Select the **Captured Pictures** tab to view the number and size of captured pictures. Click a date link to tile the captured pictures by time period.
- Select the **Detection History** tab to check the smart display detection result.

#### Multi-Camera Function Configuration

- Each screen can support the configuration of up to 4 cameras.
- After the configuration, you can go to section 6.2 Monitoring to view the picture(s) captured by the enabled camera(s).
- Step 1 Click **Configuration** at the top right of the page to enter the **Monitoring Picture** configuration page.

| ) Suppo                   | orted camera types          |        |              |    |                   |
|---------------------------|-----------------------------|--------|--------------|----|-------------------|
| No.                       | Camera Name                 | Status | Whether Enab | le | Configuration     |
| 1                         | Camera 1                    |        |              |    | How to configure? |
| 2                         | Camera 2                    |        |              |    | How to configure? |
| 3                         | Camera 3                    |        |              |    | How to configure? |
| 4                         | Camera 4                    |        |              |    | How to configure? |
| Clear S                   | Settings                    |        |              |    |                   |
| <ul> <li>Smart</li> </ul> | Display Detection Configura | ation  |              |    |                   |
|                           | _                           |        |              |    |                   |

#### Figure 6-3 Monitoring picture configuration

Step 2 (Optional) Click **Supported camera types** to check the types of cameras supported by iCare.

Figure 6-4 Supported camera types

| Supported camera types |                    | × |
|------------------------|--------------------|---|
| Brand                  | Model              |   |
| Mobotix                | MX-T25-D016        |   |
| Hikvision              | DS-2CD2610var-picf |   |
|                        |                    |   |

- Step 3 Check the box under Whether Enable to enable the camera function.
- Step 4 Click **How to configure?** on the right side of the target camera. Then, follow the instructions to quickly configure the camera parameters.
- Step 5 After camera configuration, click View Result to check the configuration result.

#### Clear Settings

- Step 1 On the bottom left of the page, click **Clear Settings**.
- Step 2 Set the period of clearing cached pictures. The quantity and size of current pictures can be previewed.

#### **Smart Display Detection Configuration**

Note: Only one camera is supported during detection configuration.

Step 1 Enable one or multiple cameras and click **Smart Display Detection Configuration** in the bottom-left corner.

Note: Disabling cameras will also disable the smart display detection function at the same time.

- Step 2 Enable the smart display detection function.
- Step 3 Select a camera.

The latest picture taken by the camera is displayed on the page.

- Step 4 Mark out the screen on the picture. The range you marked out should not exceed the screen and the images of surrounding objects or watermark cannot be included in the range.
  - Click dark to select the theme color.
  - Click on the picture to select different points to mark out the LED display range.

Step 5 Click Submit.

## 6.1.3 Error Alarm Details

#### **Basic Information**

- Step 1 Click a screen name and then select the **Error Alarm Details** page to view the alarm history and notification emails about the screen.
- Step 2 At the top right of the page, click **Configuration** to enter the threshold configuration page, as shown in Figure 6-5.

#### Figure 6-5 Threshold configuration

| Basic Information | Repair Notification | Same Error/Alarm up 1             | o 1 • times,send email  |              |              |
|-------------------|---------------------|-----------------------------------|---|--------------|--------------|
|                   | Apply Template      | Customize                         |   |              |              |
| Threshold Set     |                     | X                                 | nain templates in "Advanced+ Screen Configuration Template+ Screen alarm threshold" | Error        | Ignore       |
| Туре              |                     | Parameter<br>Work Status          | Threshold<br>System default mechanism   | Notification | Configuratio |
|                   |                     | DVI status                        | System default mechanism System default mechanism                                   | *            |              |
| Sending Card      |                     | Internet<br>access<br>redundancy  | System default mechanism  | ×            | Setting      |
|                   |                     | Hardware<br>connection<br>failure | System default mechanism  | *            |              |
|                   |                     | Work Status                       | System default mechanism  |              |              |
| Receiving Card    |                     | Voltage                           | v3A v3.8 v5.5   | ×            | Setting      |
|                   |                     | Temperature                       | 60°C  |              | Setting      |

- **Repair Notification**: Send an email to notify users if the number of times that same error/alarm happens reach the specified times.
- Apply Template: Apply alarm threshold templates. Choose Advanced > Threshold Template to create and maintain templates.

#### Threshold Configuration

• When the terminal does not connect to smart module and monitoring card

| Туре           | Parameter                         | Threshold                | Error<br>Notification | Ignore<br>Configuration |
|----------------|-----------------------------------|--------------------------|-----------------------|-------------------------|
|                | Work Status                       | System default mechanism | 8                     |                         |
|                | DVI status                        | System default mechanism | 8                     |                         |
| Sending Card   | Internet<br>access<br>redundancy  | System default mechanism | ×                     | Setting                 |
|                | Hardware<br>connection<br>failure | System default mechanism | ×                     |                         |
| Receiving Card | Work Status                       | System default mechanism | 8                     |                         |
|                | Voltage                           | v3.4 v3.8 v5.5           |                       | Setting                 |
|                | Temperature                       | 60°C                     | 8                     | Setting                 |

• When the terminal connects to smart module

#### Figure 6-7 Connected to smart module

| Туре           | Parameter                         | Threshold                | Email<br>Notification | Ignore<br>Configuration |
|----------------|-----------------------------------|--------------------------|-----------------------|-------------------------|
|                | Work Status                       | System default mechanism | V                     |                         |
|                | DVI Status                        | System default mechanism | ( <b>2</b> )          |                         |
| Sending Card   | Internet<br>access<br>redundancy  | System default mechanism |                       | Setting                 |
|                | Hardware<br>connection<br>failure | System default mechanism | ۵                     |                         |
|                | Work Status                       | System default mechanism |                       |                         |
| Receiving Card | Voltage                           | v1.0 v1.0 v2.3           | ۵                     | Setting                 |
|                | Temperature                       | 69°C                     | Ø                     | Setting                 |
|                | Work Status                       | System default mechanism | 8                     | Setting                 |
| SmartModule    | Voltage                           | v3.4 v3.8 v5.0           | ۵                     | Setting                 |
|                | Temperature                       | 60°C                     | 8                     | Setting                 |
|                | Flat Cable                        | System default mechanism | 0                     | Setting                 |

• When the terminal connects to monitoring card

| Туре            | Parameter                         | Threshold                | Error<br>Notification | Ignore<br>Configuration |
|-----------------|-----------------------------------|--------------------------|-----------------------|-------------------------|
| Sending Card    | Work Status                       | System default mechanism | . 10                  |                         |
|                 | DVI status                        | System default mechanism | 2                     |                         |
|                 | Internet<br>access<br>redundancy  | System default mechanism | 8                     | Setting                 |
|                 | Hardware<br>connection<br>failure | System default mechanism | 8                     |                         |
| Receiving Card  | Work Status                       | System default mechanism | 8                     |                         |
|                 | Voltage                           | v3A v3.8 v5.5            | 8                     | Setting                 |
|                 | Temperature                       | 60%                      | 8                     | Setting                 |
|                 | Work Status                       | System default mechanism | 8                     | Setting                 |
|                 | Voltage                           | v34 v3.9 v5.5            | 8                     | Setting                 |
| Monitoring Card | Smoke                             | System default mechanism |                       | Setting                 |
|                 | Door                              | System default mechanism | 2                     | Setting                 |
|                 | Fan Speed                         | 1000r/m                  |                       | Setting                 |
|                 | Flat Cable                        | System default mechanism |                       | Setting                 |

#### Figure 6-8 Connected to monitoring card

Parameter description:

- **Type**: It includes sending card, receiving card, monitoring card, smart module.
- **Parameter**: It refers to parameter of monitoring data type and mainly includes: "Working status", "DVI status", "Internet access redundancy", "Hardware connection status", "Temperature", "Voltage", "Flat cable", etc.
- **Threshold**: It is parameter value range during normal operation and shown in horizontal bar graph. Threshold options with "System default mechanism" cannot be adjusted.
- Error Notification: When this parameter is selected, the system will send error and alarm notifications to users.

| Temperature                                       | 60℃            | *         | Setting |
|---|----------------|-----------|---------|
| It will give an alarm and send an email when temp | erature is hi  | gher than | 60°C.   |
| Voltage   | v3.4 v3.8 v5.5 |           | Setting |

An error will occur and the system will send an email when the voltage is lower than 3.4V. The system will give an alarm and send an email when the voltage is higher than 5.5V.

Ignore Configuration: Click Setting to complete Ignore Configuration Settings.

| hether to enable  | Disabled Ignores Configu | *   |                |  |
|-------------------|--------------------------|-----|----------------|--|
| nore configuratio | on table                 |     |                |  |
| Name              | Sending Card             | Net | Receiving Card |  |
| Add Line          | Sending Card             | Net | Receiving Card |  |

## 6.1.4 Brightness

Step 1 Click a screen name and select the **Brightness** page to view the display brightness, environment brightness, light sensor status, and brightness template name.

| Basic Information M | onitoring Picture Err   | or Alarm Details | Brightness | Real Time Status | Individual LED Detection |
|---------------------|---|------------------|------------|------------------|--------------------------|
|                     |   |                  |            |                  |                          |
| current log ema     | ÎI.   |                  |            |                  | Configuration            |
| Display Brightness  | 102(40.0%)  |                  |            |                  |                          |
| Environment         | 200 Lux   |                  |            |                  |                          |
| Brightness          |   |                  |            |                  |                          |
| Light Sensor Status | Normal  |                  |            |                  |                          |
|                     |   |                  |            |                  |                          |
|                     | Location  | Value(Lux        | )          |                  |                          |
|                     | Sender(sequence:00)-<br>PortOfSender(sequence:0<br>LightSensor(sequence:00) |                  |            |                  |                          |
| Template name       | Customize   |                  |            |                  |                          |

- **Display Brightness**: Shows the current brightness of the display.
- Environment Brightness: Shows the brightness detected by the light sensor. When multiple light sensors are connected, this parameter shows the average brighntess. If **Nonsupported** is shown, it indicates that no light sensor is connected to the display.
- Light Sensor Status: Shows the current status of the light sensor. This parameter is shown when a light sensor is connected.
- **Template name**: Shows the name of the currently used brightness template. When **Customize** is shown, it indicates that no brightness template is used.
- Step 2 Click the **Log** tab to view the logs of brightness adjustment. If you want to export the logs, click **Export to Excel**.

| asic Infor | mation Monitoring Picture | Error Alarm Det | tails Brightness | Real Time Status Individu | ual LED Detection |
|------------|---------------------------|-----------------|------------------|---------------------------|-------------------|
| urrent     | log email                 |                 |                  |                           | Configuration     |
| Start Ti   | me                        | ~ End Time      |                  | Search                    | Export to Exce    |
| No.        | ▼Time                     | Result          | Target Brightnes | s 🕴 Adjustment            | Туре              |
| 1          | 2018-05-04 15:19:08       | Success         | 102(40.0%)       | Environment               | Brightness        |
| 2          | 2018-05-04 11:46:35       | Success         | 76(29.9%)        | Specific Brigh            | tness             |
| 3          | 2018-05-04 10:41:27       | Success         | 0(0.0%)          | Environment               | Brightness        |
| 4          | 2018-05-04 10:36:24       | Success         | 7(2.8%)          | Environment               | Brightness        |
| 5          | 2018-05-04 10:31:19       | Success         | 25(9.9%)         | Environment               | Brightness        |

#### Figure 6-10 Brightness page — Log

Figure 6-9 Brightness page — Current

Step 3 Click the **Mail** tab and view the time to send light sensor error/alarm emails, recipients, and emai types.

| sic Inforr | mation Monitoring Picture | Error Alarm Details | Brightness    | Real Time Status | Individual LED De | etection     |
|------------|---------------------------|---------------------|---------------|------------------|-------------------|--------------|
| rent       | log email                 |                     |               |                  |                   | Configuratio |
| Start Ti   | me                        | ~ End Time          |               | Search           |                   |              |
| No.        | <b>▼</b> Time             | ♦ Rec               | eiver         |                  | Туре              |              |
| 1          | 2018-05-04 15:14:47       | nova                | _hemy@126.com | I                | Light senso       | r            |
| 2          | 2018-05-04 11:14:49       | nova                | _hemy@126.com | I                | Light sense       | r            |
| 3          | 2018-05-04 10:46:14       | nova_               | _hemy@126.com | I                | Light senso       | r            |
| 4          | 2018-05-04 10:45:14       | nova_               | _hemy@126.com | l                | Light sense       | r            |
| 5          | 2018-05-03 16:45:35       | nova                | hemy@126.com  |                  | Light senso       | r            |

Figure 6-11 Brightness page — Mail

Meanings of the values of **Type**:

- Brightness: Brightness adjustment failure emails
- Light sensor: Light sensor error or alarm emails
- Step 4 At the top right of the page, click **Configuration** to set the parameters related to brightness.

#### Figure 6-12 Brightness settings

| Basic Information        | Monitoring Picture Error Alarm De  | tails Brightness Real Time Status Individual LED Detection  |                            |
|--------------------------|------------------------------------|---|----------------------------|
| <b>Basic Information</b> |                                    |   |                            |
|                          | Brightness Control Fallure Email N | otice 🧭   |                            |
|                          | Light Sensor Repair Notifica       | ation 🐼 Same Error/Alarm up to 1  | • times,send email         |
|                          | Brightness Range Thres             | hold  | 55468Lux                   |
|                          |                                    | When the difference between the maximum reading and the minimum reading is greater than the three | shald, alarm email will be |
|                          | Apply Temp                         | olate Customize   | · 🏛                        |
|                          |                                    | You can create and maintain templates in "Advanced> Screen Configuration Template> Brightness"    |                            |
|                          |                                    |   |                            |
| 🗸 Automatic Brigh        | tness Adjustment                   |   |                            |
|                          | phtness Map                        |   |                            |

- Brightness Control Failure Email Notice: Allows to decide whether to send notification emails when the brightness control fails.
- Light Sensor Repair Notification: This parameter is shown when the display supports light sensors. When the number of the times of a same error or alarm continuously occurs reach the value you set, the system will send a notification email.
- **Brightness Range Threshold**: This parameter is shown when the display supports light sensors and multiple light sensors are connected to the display. When the difference between the maximum and minimum readings of the light sensors is greater than the threshold you set, the system will send a notification email.

• Automatic Brightness Adjustment: Allows to configure the rules for automatic brightness adjustment.

| Automatic Brightness Adjustment |                        |               |       |        |     |  |  |
|---------------------------------|------------------------|---------------|-------|--------|-----|--|--|
| Time                            | Туре                   | Brightness(%) | Gamma | Enable |     |  |  |
| 16:00                           | Environment brightness |               |       | ۲      | î C |  |  |
| 17:00                           | Environment brightness |               | 2.8   | ۲      | î C |  |  |
| New                             |                        |               |       |        |     |  |  |

Meanings of the values of Type:

- **Specific brightness**: The brightness of the display changes based on the specified value.
- Environment brightness: The brightness of the display changes based on the configuration in the environment brightness mapping table.
- Environment Brightness Map: Allows to configure the relationship between display brightness and environment brightness.

| ght sensor failure setting  When the reading enviro | nment brightness fails, the brightness is adjusted to that value. |      |
|---|---|------|
| Environment Brightness(Lux)                         | Display Brightness(%)   |      |
| 20  | 40  | Dele |
| 1218  | 44  | Dele |
| 2416  | 48  | Dele |
| 3614  | 52  | Dele |
| 4812  | 56  | Dele |
| 6010  | 60  | Dele |
| 7208  | 64  | Dele |
| 8406  | 68  | Dele |
| 9604  | 72  | Dele |
| 10802   | 76  | Dele |
| 12000   | 80  | Dele |

- **Light sensor failure setting**: When this parameter is selected, if the system fails to read the environment brightness, the brightness of the display will be adjusted to the value you set here.
- Quick Subsection: Allows to quickly configure the environment brightness mapping table.

## 6.1.5 Real Time Status

Step 1 Click a screen name and select the Real Time Status page.

The **Real Time Status** tab page displays the status of online/offline, real-time temperature of the control system, and the storage space usage details about the player. When a smart module is connected to the terminal, the **Real Time Status** tab page also displays the record of the smart module's working hours.

Figure 6-13 Real time status

| Basic Information                         | Monitoring Picture  | Error Alarm Details | Brightness | Real Time Status | Individual LED Detection |                |
|---|---------------------|---------------------|------------|------------------|--------------------------|----------------|
| Status Overview                           |                     |                     |            |                  |                          | Configuration  |
| 📣 Offline Time :                          | 2016-11-28 00:59:57 |                     |            |                  |                          |                |
| Check Logs                                |                     |                     |            |                  |                          |                |
| Control System                            |                     |                     |            | Player           |                          |                |
| Max Temperature:52<br>Avg Temperature:41  |                     |                     |            | CPU              |                          | 4%             |
| Min Temperature:30                        |                     |                     |            | RAM              |                          | 1.81G/3.25G    |
|   |                     |                     |            | C:               |                          | 28.78G/80G     |
| Smart Module Work                         | Time                |                     |            | D:               |                          | 17.17G/101.91G |
| Longest Time:158h5<br>Shortest Time:158h5 |                     |                     |            | E:               |                          | 75.5G/142.01G  |
|   |                     |                     |            | F:               |                          | 34.1G/141.74G  |
|   |                     |                     |            |                  |                          |                |

- Step 2 Click Check Logs to view the status in history and the email details.
- Step 3 At the top right of the page, click **Configuration** to set a time period after which a notification email would be sent if the screen goes offline.

#### 6.1.6 Individual LED Detection

If this function is configured in both NovaLCT and iCare, users can check the result of individual LED detection.

- Step 1 Click a screen name and select the Individual LED Detection page.
- Step 2 At the top right of the page, click **Configuration** to set the template and period individual LED detection.

Figure 6-14 Configuration of individual LED detection

| Basic Information  | Monitorir        | ng Picture   | Err <b>o</b> r Alarm Details | Brightness      | Real Time Status       | Individual LED Detection |
|--------------------|------------------|--------------|------------------------------|-----------------|------------------------|--------------------------|
| Apply Template     |                  | Customiz     | e                            |                 | ¥                      |                          |
|                    |                  | You can crea | ate and maintain templat     | es in "Advanced | > Screen Configuration | Template≻ Spot Check"    |
| Template Data      |                  |              |                              |                 |                        |                          |
| Individual LED Det | ection<br>Period | Never        |                              |                 | Ŧ                      |                          |
| Submit             |                  |              |                              |                 |                        |                          |

- Apply Template: Apply individual LED detection templates. Choose Advanced > Individual LED Detection Template to create and maintain templates.
- **Template Data:** Set the period of individual LED detection.

## 6.1.7 Workgroup

Step 1 Select a screen and click **Configuration** at the top left of the page.

Step 2 Click the **Workgroup** page to set the workgroup that the current screen belongs to.

#### Figure 6-15 Workgroup

| Basic Information                               | Monitoring Picture     | Error Alarm Details | Brightness | Real Time Status | Individual LED Detection | Workgroup |
|---|------------------------|---------------------|------------|------------------|--------------------------|-----------|
|   |                        | <b>Q</b> Search     |            |                  |                          |           |
| <b>- Workgroup N</b><br>■ ● <b>■</b> All(1 / 2) | lame ( User Count / Sc | reen Count )        |            |                  |                          |           |
| 😑 🔿 🔁 group 1                                   | (0 / 0)                |                     |            |                  |                          |           |
| 🔿 📴 grou  | p11(0 / 0)             |                     |            |                  |                          |           |
| 🗆 🔿 📴 grou                                      | p12(0 / 0)             |                     |            |                  |                          |           |
| Submit  |                        |                     |            |                  |                          |           |

## 6.2 Monitoring

Step 1 Choose **Screen Management** > **Monitoring** to access the monitoring page.

One grid shows a LED display's real-time picture(s) captured by the enabled camera(s) (16 LED displays can be monitored simultaneously at most, while each LED display can support a maximum of 4 enabled cameras).

Note: For 1-grid, 4-grid and 9-grid, each grid can be further split into 4 sub-grids, each of which displays the picture captured by one camera. 16-gird does not support splitting.

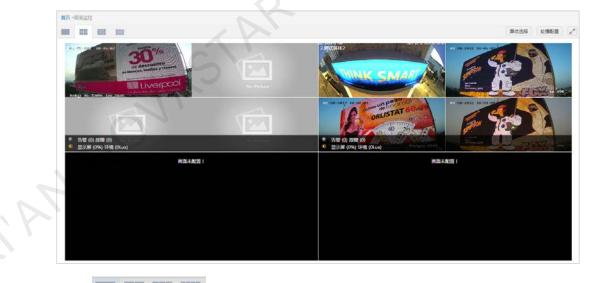


Figure 6-16 Monitoring

- Step 2 Click 4-grid, 9-grid, and 16-grid.
- Step 3 Click Select Screen on the upper-right corner of the page to select the screen to be monitored.

In the selected screen(s) area, drag the screen name to change the order. Thus the screen order in the Monitoring page changes accordingly.

#### Figure 6-17 Select screen

|        | Select | Screen(2)                    |                       |                        | ×         |
|--------|--------|------------------------------|-----------------------|------------------------|-----------|
|        | Q      | . Search by screen name or t | tag                   | Screen(s) 2 selected   |           |
|        |        | Screen Name                  | Tag                   | test screen 1          | ×         |
|        |        | test screen 1                | ,                     | test screen 2          | ×         |
|        | •      | test screen 2                |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        |           |
|        |        |                              |                       |                        | OK Cancel |
|        |        |                              |                       | <b>U</b>               | Cancer    |
| Step 4 | Click  | Carousel Settings            | on the top right corr | er to choose time inte | erval     |
| etep i | Chort  |                              | en die top light oon  |                        |           |

## Figure 6-18 Carousel settings

| Time Interval 1 3 5 m |        |
|-----------------------|--------|
|                       |        |
|                       | OKCand |



## 7.1 Periodic Inspection Reports

Choose > **Report** > **Periodic Inspection Report** to access the periodic inspection report setting page, as shown in the figure below.

| Time:0 | 016-12-30<br>9:00<br>Jumber : 9 |                       |                           |                     |                  |         |
|--------|---------------------------------|-----------------------|---------------------------|---------------------|------------------|---------|
| No.    | <b>▼</b> Screen Name            | Current<br>brightness | Environment<br>brightness | \\$ Address         |                  | ≑ Statu |
| 1      | 前瞻03                            | 0 (0%)                | Unsupport                 |                     |                  | Offlin  |
| 2      | 前瞻02                            | 0 (0%)                | Unsupport                 |                     |                  | Offlin  |
| 3      | 前瞻01                            | 255 (100%)            | Unsupport                 |                     | 2016-12-05 09:28 | Offlin  |
| 4      | XI'AN Software                  | 0 (0%)                | Unsupport                 | Xi'An Software park |                  | Offlin  |
| 5      | wf111111                        | Failure               | Failure                   |                     | 2016-10-31 02:01 | Offlin  |
| 6      | wf                              | 153 (60%)             | Unsupport                 |                     | 2016-09-12 01:52 | Offlin  |
| 7      | wf                              | 0 (0%)                | Unsupport                 |                     |                  | Offlin  |
| 8      | SYD XTCHATSW NORTHbb            | 0 (0%)                | Unsupport                 | 陕西省西安市雁塔区二环南路西段     |                  | Offlin  |
| 9      | COM12-屏1                        | Failure               | Unsupport                 |                     | 2016-10-14 03:05 | Offlin  |

Figure 7-1 Periodic inspection report-Latest status

Figure 7-2 Periodic inspection report-History status

| No. | <b>▼</b> Time    | Screen Number |
|-----|------------------|---------------|
| 1   | 2016-12-30 09:00 | 9             |
| 2   | 2016-12-30 00:32 | 9             |
| 3   | 2016-12-29 09:00 | 9             |
| 4   | 2016-12-29 00:32 | 9             |
| 5   | 2016-12-28 09:00 | 9             |
| 6   | 2016-12-28 00:32 | 9             |
| 7   | 2016-12-27 09:00 | 9             |
| 8   | 2016-12-27 00:32 | 9             |
| 9   | 2016-12-26 09:00 | 9             |
| 10  | 2016-12-26 00:32 | 9             |

## 7.1.1 Basic Information Configuration

Click **Configure** to access the page of configuration which includes "Basic Information" and "Associated screen settings". Click **Edit** on the page of basic information to edit basic information, as shown in the figure below.

Figure 7-3 Periodic inspection report-Basic information

| *Report Cycle      | Every day   |       |
|--------------------|---|-------|
|                    |   |       |
| *Report Time (UTC) | 03:39   | Ð     |
|                    |   |       |
| * Report Email     | nova_chenggp@126.com  |       |
|                    | Support up to 3 email addresses, separated by comma. Do not support QQ email.   |       |
| * Email Language   | English   |       |
|                    | Submit  |       |
|                    | od: Report the current status of LED display according to the p<br>it defaults to "Never", it means that the LED display won't be | eriod |

• Report Time (UTC): Refers to the specific time to report the status of LED

display. Click on the icon 🙂 to add one time. It defaults to 9:00 am.

- Report Email: The number of email addresses can be one or more, but 3 at most. If the user registered via email, here will show the email address used during registration, otherwise, it is empty.
- Email Language: The language of the content of emails.

Note:

 When "Everyday" is selected as "Report Period", click on the input box of "Report Time (UTC)", then the dropdown menu will show a time picker and you can select a proper time.

- When "Every week" is selected as "Report Period", "Report Date (UTC)" will be added under "Report Period". Click "Report Time (UTC)" to select a date in the drop-down menu.
- When "Every month" is selected as "Report Period", "Report Date (UTC)" will be added under "Report Period". Click on the input box of "Report Date (UTC)" and a time picker will pop up. Then you can select a specific data.
- When "Never" is selected as "Report Period", the input boxes of "Report Time (UTC)" and "Report Email" cannot be edited.

## 7.1.2 Associated screen settings

Click **Associated screen settings** to select the screen(s) which will be associated by the device.

Figure 7-4 Periodic inspection report-Associated screen settings

| ne > Perioc | dic Inspection Report >Configuration      |  |             |     |         |
|-------------|---|--|-------------|-----|---------|
| ic Informa  | ation Associated screen settings          |  |             |     |         |
| ssociatio   | n Screen ( 0 ) Tip: the associated operat | ion will cover the original association relationship |             |     |         |
| 8           | * Screen Name                             | Size ( Width*Height )                                | Device Type | Tag | Address |
| 0           | 测试用体1                                     | 64*32  | M3          |     |         |
| 0           | 测试屏体2                                     | 64*32  | M3          |     |         |
|             |   |  |             |     |         |

Association Screen (the number of screens associated): Set the screens to be monitored. The screens of the user are shown in the table.

## 7.2 Custom Reports

Choose > Report > Client Custom Report to access the client custom report setting page.

Note: Only enterprise users are able to access.

Figure 7-5 Client custom report

| Ke | y Words |             | Q Choose    | Conditions    | Configuration Down              |
|----|---------|-------------|-------------|---------------|---------------------------------|
|    | No.     | Client Name | Report Name | Screen Number | • Report Generated Time ( UTC ) |
|    | 1       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:51             |
|    | 2       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:49             |
|    | 3       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:47             |
|    | 4       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:45             |
|    | 5       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:43             |
|    | 6       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:41             |
|    | 7       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:39             |
|    | 8       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:37             |
|    | 9       | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 06:31:35             |
|    | 10      | 1430_6_cus  | 1430_6      | 10            | 2017-01-11 05:31:33             |

Click **Configuration** on the top right corner to "Add", "Edit", "Delete" reports.

| Figure | 7-6 | Configuration |
|--------|-----|---------------|
| iguio  |     | Configuration |

|     | Add Edit De   |               |             |                     |               |
|-----|---------------|---------------|-------------|---------------------|---------------|
| No. | • Report Name | ¢ Client Name | Send Period | Next Send Time(UTC) | Screen Number |
| 1   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 2   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 3   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 4   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 5   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 6   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 7   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 8   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 9   | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |
| 10  | 1430_6        | 1430_6_cus    | Everyday    | 2017-01-11 06:30:00 | 10            |

## 7.2.1 Creating Reports

**Basic Information** 

- Step 1 On the **Configuration** page of **Client Custom Report**, click **Add** to enter the **Add** page.
- Step 2 Edit the basic information about the new client custom report.
- Step 3 Click **Submit** to go to the editing page.
- Step 4 Click Edit to edit the basic information.

#### Figure 7-7 Basic information

| Home > Client Custom | Report >Configuration >Add                    |
|----------------------|---|
| Report Name          | 1 ~ 60 characters                             |
| Report<br>Period     | Every month                                   |
| Report<br>Date(UTC)  | 1   |
| Report<br>Time(UTC)  | 09:00   |
| Client Name          | 1 ~ 60 characters                             |
| Report Email         |   |
|                      | Separate by comma, supports up to three email |
| Email<br>Language    | Chinese                                       |
|                      | Submit  |

#### Associated screen settings

- Step 1 Click the Associated screen settings tab.
- Step 2 Click **Edit** and select a screen to associate (multiple screens can be associated at the same time).
- Step 3 Click Submit.

#### Figure 7-8 Associated screen settings

| · · · · · · · · · · · · · · · · · · · |                       |             |       |   |
|---------------------------------------|-----------------------|-------------|-------|---|
| * Screen Name                         | Size ( Width*Height ) | Device Type | 0 Tag | Address   |
| American                              | 128*128               | M3          | nova  | ул. Большая Черкизовская, 103/105, Москва, Россия, 107553 |
| 對試算能不能注册                              | 140*140               | M3          | nova  | Бутырская ул., вл86Г, Москва, Россия, 127015              |
| 1111                                  | 32*32                 | . M3        | nova  |   |
| COM11-J#1                             | 128*192               | MB          | nova  |   |
| WBLpro                                | 256*256               | M3          | nova  |   |
| PPSD100-J-123                         | 32*32                 | Pluto       | nova  |   |
| COM4-#11111                           | 128*128               | M3          |       |   |
| OldS                                  | 128*128               | EM3         |       | a 25年後  |
| 用此用相不相比主册333                          | 128*128               | MB          |       |   |

## 7.2.2 Edit Reports

#### **Basic Information**

- Step 1 On the **Client Custom Report** list page, click **Configuration** at the top right to enter the **Configuration** page of **Client Custom Report**.
- Step 2 Select a report.
- Step 3 Click **Edit** at the top right to enter the **Basic Information** page. Then, click **Edit** to edit such information as report name, report date, report period, client name and so on.

Figure 7-9 Basic Information

| 7 | Home >Client Custom | Report >Configuration >Edit |
|---|---------------------|-----------------------------|
|   | Basic Informatio    | Associated screen settings  |
|   | Report Name         | 1430_6                      |
|   | Report<br>Period    | Everyday                    |
|   | Report<br>Time(UTC) | 06:30                       |
|   | Client Name         | 1430_6_cus                  |
|   | Report Email        | nova_yubin@126.com          |
|   | Email<br>Language   | Chinese                     |
|   | Edit                |                             |

#### Associated Screen Settings

- Step 1 Click the Associated screen settings tab.
- Step 2 Click **Edit** and select a screen to associate (multiple screens can be associated at the same time).
- Step 3 Click Submit.

## 7.2.3 Deleting Reports

- Step 1 On the **Client Custom Report** list page, click **Configuration** at the top right to enter the **Configuration** page of **Client Custom Report**.
- Step 2 Select one or multiple reports.
- Step 3 Click **Delete** at the top right to delete the selected reports.

Note:

- When "Everyday" is selected as "Report Period", click on the input box of "Report Time (UTC)", then the dropdown menu will show a time picker and you can select a proper time.
- When "Every week" is selected as "Report Period", "Report Date (UTC)" will be added under "Report Period". Click "Report Time (UTC)" to select a date in the drop-down menu.
- When "Every month" is selected as "Report Period", "Report Date (UTC)" will be added under "Report Period". Click on the input box of "Report Date (UTC)" and a time picker will pop up. Then you can select a specific data.
- When "Never" is selected as "Report Period", the input boxes of "Report Time (UTC)" and "Report Email" cannot be edited.



## 8.1 Tag Management

Choose > Advanced > Tag Management to access the tag management page, as shown in figure below.

Add tags to screens, which can show the features of screens more initiatively. Tags can be customized such as stadiums, LED advertisement displays, etc.

#### Figure 8-1 Tag management

|   | No. | ≑ Tag Name  | Association Screen |  |  |  |  |
|---|-----|-------------|--------------------|--|--|--|--|
|   | 1   | test1       | 1                  |  |  |  |  |
|   | 2   | swclxsw     | 0                  |  |  |  |  |
|   | 3   | sdw         | 1                  |  |  |  |  |
|   | 4   | gvfdv       | 1                  |  |  |  |  |
|   | 5   | axzx        | 2                  |  |  |  |  |
| 0 | 6   | 888888      | 2                  |  |  |  |  |
|   | 7   | 454535345   | 7                  |  |  |  |  |
|   | 8   | 32423423423 | 6                  |  |  |  |  |
|   | 9   | 111111      | 7                  |  |  |  |  |

## 8.1.1 Add

Click Add on the page of Tag management to add tags.

#### Figure 8-2 Add tags

| Home >Tag Mana | agement >Add                     |
|----------------|----------------------------------|
| Tag<br>Name    | Maximum 10 Chinese or 20 English |
| Submit         |                                  |

Click Submit and the page of Edit will appear.

## 8.1.2 Edit

Select a screen to be edited on the page of Tag Management and click **Edit** to the name of its tag and associate screens to the tag. Click **Submit** upon completion.

## 8.2 Threshold Templates

Choose Advanced > Threshold Template to access the threshold template page, as shown in figure below.



| Home >T | hresho | ld Template    |                      |                        |
|---------|--------|----------------|----------------------|------------------------|
|         |        |                |                      | Add Edit Delete        |
|         | No.    | Threshold Name | + Association Screen |                        |
|         | 1      | test           | 1                    |                        |
|         | 2      | dfdsa          | 0                    |                        |
| Tota    | 12 No  | o. 1/1         |                      | 10 • for each of pages |

## 8.2.1 Add

- Step 1 On the **Threshold Template** page, click **Add** to pop up the **Add Template** dialog box. Then, edit **Template Name** in the box.
- Step 2 Click **Submit** to go to the **Edit** page of the new threshold template.
- Step 3 Click Edit to edit the new threshold template information.
- Step 4 Edit the name of the new template.
- Step 5 Click and drag the slider to set the threshold parameters of the receiving card, monitoring card or smart module.

#### Figure 8-4 Add template

| Template        |               |                                 |   |        |
|-----------------|---------------|---------------------------------|---|--------|
| Name            | 1~32 characte | er                              |   |        |
| Template Set    | If LED di     | 'splay doesn't support monitori | ng card or smart module, the module settings will not take effect |        |
| Туре            |               | Parameter                       | Threshold   | 1      |
| Dessisters      | Cand          | Temperature                     |   |        |
| Receiving       | Card          | Voltage                         |   | v3.4 v |
|                 |               | Humidity                        |   |        |
| Monitoring Card |               | Voltage                         |   | v3.4 v |
|                 |               | Fan Speed                       |   | 1      |
| SmartMo         | de de s       | Voltage                         |   | v3.4 v |
| Smartivio       | aule          | Temperature                     |   |        |

Current status denotes:

- It will give an alarm when the temperature is higher than 60°C.
- The screen will be faulty when the voltage is lower than 3.4V. It will give an alarm when the voltage is between 3.4V and 3.8 or higher than 5.0V.
- It will give an alarm when the fan speed is lower than 1000 r/m.

## 8.2.2 Edit

Select a template to be edited and click **Edit** for parameter settings and associated screen settings.

## 8.3 Brightness Templates

Choose > Advanced > Brightness Template to access the brightness template page, as shown in figure below.

Figure 8-5 Brightness template

|       |      |                |                    | Add Edit Delete        |
|-------|------|----------------|--------------------|------------------------|
|       | No.  | Threshold Name | Association Screen |                        |
|       | 1    | 111            | 0                  |                        |
|       | 2    | 123            | 0                  |                        |
|       | 3    | 11             | 0                  |                        |
| Total | 3 No | o. 1/1         |                    | 10 T for each of pages |

## 8.3.1 Add

At the top right of the page, click Add to add a brightness template.

## 8.3.2 Edit

Select a brightness template and click **Edit**, or click a template name. Then, click **Edit** on the editing page.

| * temp1<br>Template<br>Name     |                                   |                       |        |
|---------------------------------|-----------------------------------|-----------------------|--------|
| Automatic Brightness Adjustment |                                   |                       |        |
| Time                            | Туре                              | Brightness(%)         | Enable |
| 09:00                           | Specific brightness               | 20                    | • î c  |
| + New                           |                                   |                       |        |
| Environment Brightness Map      |                                   |                       |        |
| Light sensor failure setting    | When the reading environment brig | 0%                    |        |
| Environment Brightness(Lux)     |                                   | Display Brightness(%) |        |
| +New ≁Quick                     | Subsection                        |                       |        |
| Submit Cancel                   |                                   |                       |        |

• Automatic Brightness Adjustment: Allows to configure the rules for automatic brightness adjustment.

Meanings of the values of Type:

- Specific brightness: The brightness of the display changes based on the specified value.
- **Environment brightness**: The brightness of the display changes based on the configuration in the environment brightness mapping table.
- Environment Brightness Map: Allows to configure the relationship between display brightness and ambient brightness.
  - Light sensor failure setting: When this parameter is selected, if the system fails to read the environment brightness, the brightness of the display will be adjusted to the value you set here.
  - **Quick Subsection**: Allows to quickly configure the environment brightness mapping table.

## 8.4 Individual LED Detection Templates

Choose > Advanced > Individual LED Detection Template to access the individual LED detection template page, as shown in figure below.

| Figure 8-6 Individual LED Detection | Templates |
|-------------------------------------|-----------|
|-------------------------------------|-----------|

|       |       |                |                    | Add Edit Delete        |
|-------|-------|----------------|--------------------|------------------------|
|       | No.   | Threshold Name | Association Screen |                        |
|       | 1     | P1             | 0                  |                        |
|       | 2     | dewdewdew      | 0                  |                        |
|       | 3     | sdxsdxs        | 0                  |                        |
|       | 4     | СДЖС           | 0                  |                        |
| Fotal | 4 No. | . 1/1          |                    | 10 • for each of pages |

## $8.4.1 \; \text{Add}$

Step 1 Click Add to go to the Add Template dialog box and edit Template Name.

Step 2 Click Submit to go to the Edit page of the new individual LED detection template.

## 8.4.2 Edit

Select the template to be edited and click **Edit** for template parameter settings.

#### Figure 8-7 Edit templates

| Name Template Data Individual LED Detection Period Monthly Inspection Date 01 Inspection Time 09:00 Maintenance Notice Bad Rate ≥ 5 %o, Notification Servie Submit Cancel                              | Template Data         Individual LED Detection Period       Monthly         Inspection Date       01         Inspection Time       09:00         Maintenance Notice       Bad Rate ≥       5       %o, Notification Servite | * Template        | S1              |            |   |                      |
|--|---|-------------------|-----------------|------------|---|----------------------|
| Individual LED Detection Period       Monthly       •         Inspection Date       01         Inspection Time       09:00         Maintenance Notice       Bad Rate ≥ 5       ‰, Notification Service | Individual LED Detection Period       Monthly       ▼         Inspection Date       01         Inspection Time       09:00         Maintenance Notice       Bad Rate ≥       5       %o, Notification Servite               | Name              |                 |            |   |                      |
| Inspection Date     01       Inspection Time     09:00       Maintenance Notice     Bad Rate ≥ 5   | Inspection Date     01       Inspection Time     09:00       Maintenance Notice     Bad Rate ≥ 5  | Template Data     |                 |            |   |                      |
| Inspection Time 09:00<br>Maintenance Notice ■ Bad Rate ≥ 5 %, Notification Service   | Inspection Time 09:00<br>Maintenance Notice ■ Bad Rate ≥ 5 %, Notification Servi  | Individual LED De | etection Period | Monthly    |   | •                    |
| Maintenance Notice ■ Bad Rate ≥ 5 ‰, Notification Servi  | Maintenance Notice ■ Bad Rate ≥ 5 ‰, Notification Servi   | Ir                | nspection Date  | 01         |   |                      |
| Maintenance Notice ■ Bad Rate ≥ 5 %, Notification Servi  | Maintenance Notice ■ Bad Rate ≥ 5 %, Notification Servi   | Ir                | nspection Time  | 09:00      |   |                      |
|  |   |                   |                 | Bad Rate > | 5 | % Notification Servi |
| Ch Ch  | NOVASTAR  |                   |                 |            | - | ],                   |
|  |   |                   |                 |            |   | С.,                  |

# **9** IPC Configuration

## 9.1 Before You Begin

Following preparations need to be done before connecting IP Camera:

- PC x 1
- IP Camera x 1
- Download network search software of camera units and install it on your computer. HIKVISION camera network search software is SADP\_ version.
   Please visit HIKVISION official website at http://overseas.hikvision.com/en/ to download SADP software. The specific download operation of the software is shown as follows.

Figure 9-1 Downloading network search software of camera unit

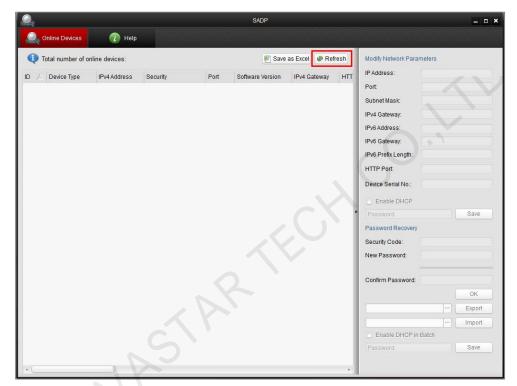
|   | HIK VISION  | Headquarters  |
|---|---|---|
| R | Support 2<br>Notice<br>Download<br>SDK<br>Clent Software 3<br>User Manual<br>Product Catalog<br>Leaftet<br>Regional Materials<br>Firmware | Bandwidth Calculator V2.0.0.3      Disk Space Calculator V4.0.0.2      SADP V3.0.0.2      MFPlugins V6.2.1.2      VSPlayer V7.2.0      Format Converter V4.0.1      VSPlayer for Mac OS |
|   | Knowledge Base<br>FAQ<br>White Paper<br>Video<br>Training<br>Security Center  | Web Plugin for Mac OS V3.0.5.43      DSFilters V6.1.2.2      Hikvision DVR Menu Simulator V3.2.0      SADP V2.2.3.6      IPC Calculator (V1.0)  |
|   | Product Selector  |   |

Note: PC and IP Camera need to be connected in the same network segment!

## 9.2 Network Parameter Configuration

Step 1 After installing the equipment network search software, open it and click Refresh.

Figure 9-2 Window of the network search software of camera unit



- Step 2 Click and select the camera to be configured. Set network parameter configuration of the camera on the right side. It defaults to no administrator password. If it is required to set password, please enter password in "Password" box at the lower right position of the page.
  - Tip:

The configuration process is similar to that of the IP address of PC, and static IP and automatic access can be set. Please note when setting static IP: Camera IP and IP of PC must be in the same network segment and do not conflict with the IP of other LAN network equipment. In addition, please confirm that PC can access the public network normally.

Figure 9-3 Configuring network parameters

| <u>_</u>   |                              |                              |                    |              | SADP                                   |                             |           |  | - o ×   |
|------------|------------------------------|------------------------------|--------------------|--------------|--|-----------------------------|-----------|--|---|
| <u>_</u>   | Online Devices               | 🕜 Help                       |                    |              |  |                             |           |  |   |
| <b>Q</b> 1 | Total number of onli         | ine devices: 2               |                    |              | I Save a                               | as Excel 🖉 🖗 Ref            | fresh     | Modify Network Para  | ameters   |
| ID /       | Device Type<br>DS-2CD2610F-I | IPv4 Address<br>172.16.20.71 | Security<br>Active | Port<br>8000 | Software Version<br>V5.3.0build 150603 | IPv4 Gateway<br>172.16.20.1 | НТТ<br>80 | IP Address:<br>Port  | 172.16.20.123<br>8000   |
| 001        | DS-2CD2810F-4<br>DS-2CD2810V |                              |                    | 8000<br>8000 | V5.3.0build 160301                     |                             | 80        | Poli:<br>Subnet Mask:<br>IPv4 Gateway:<br>IPv6 Address:<br>IPv6 Gateway:<br>IPv6 Prefix Length:<br>HTTP Port:<br>Device Serial No.:<br>Enable DHCP<br>Password<br>Reset Password<br>New Password:<br>Confirm Password: | 255.255.0<br>172.16.20.1<br>::<br>:<br>0<br>80<br>DS-2CD2610VAR-PICF201<br>Save |
|            |                              |                              |                    |              |  |                             |           |  |   |

## 9.3 Time Settings

Step 1 Input IP address of camera in the address bar of the browser (360 browser or IE11 are recommended) and press **Enter** key for confirmation (or double click the IP address of corresponding device in the device list of above figure). Enter device login interface with the user name of "admin" and empty password by default. Users can set the login password after logging in and the login password is same as that of administrator.

Figure 9-4 Login page

Step 2 Download plug-in after logging in as per the prompt.



- Step 3 Click and download the plug-in. Refresh the page after finishing installation. Select "All sites operation" as per the prompt.
- Step 4 Enter the device interface and select **Configuration>System>System Settings>Time Settings**. Check "Sync. with computer time" and click "Save".

|           |                 | Live View Play    | back Picture             | Configuration            |
|-----------|-----------------|-------------------|--------------------------|--------------------------|
| ₽         | Local           | Basic Information | RS232 DST                |                          |
|           | System          | Time Zone         | (GMT+08:00) Beijing, Uru | umqi, Singapore 🗸        |
|           | System Settings | 2<br>NTP          |                          |                          |
|           | Maintenance     |                   |                          |                          |
|           | Security        | Server Address    | time.windows.com         |                          |
|           | User Management | NTP Port          | 123                      |                          |
| Ð         | Network         | Interval          | 1440                     | min                      |
| <u>Q.</u> | Video/Audio     |                   | Test                     |                          |
| 1         | Image           | Manual Time Sync. |                          |                          |
| Ē         | Event           | Manual Time Sync. |                          |                          |
|           | Storage         | Device Time       | 2016-04-06T10:40:41      | 4                        |
|           |                 | Set Time          | 2016-04-06T10:42:58      | Sync. with computer time |
|           |                 | 🗎 Save            | 5                        |                          |

Figure 9-5 Time settings

## 9.4 Image Display Settings

Step 1 Select **Configuration > Image > OSD Settings** and set the parameters as required. Click "**Save**" after the settings.

Figure 9-6 OSD settings

|           |             | Live View        | Playback     | Picture      | Configuration | 1              |           |   |
|-----------|-------------|------------------|--------------|--------------|---------------|----------------|-----------|---|
| Ţ         | Local       | Display Settings | OSD Settings | Privacy Mask |               |                |           |   |
|           | System      |                  |              |              |               | Display Name   |           |   |
| Ð         | Network     |                  |              |              |               | Display Date   |           |   |
| <u>Q.</u> | Video/Audio |                  |              |              |               | 🖌 Display Week |           |   |
| 1         | Image 2     |                  |              |              |               | Camera Name    | 123456    | 4 |
| Ē         | Event       |                  |              |              |               | Time Format    | 24-hour V |   |
| 8         | Storage     |                  |              |              |               | Date Format    | ~         |   |
|           |             |                  |              |              |               |                |           |   |
|           |             |                  |              |              |               |                |           |   |
|           |             |                  |              |              |               |                |           |   |
|           |             |                  |              |              |               |                |           |   |
|           |             |                  |              |              |               |                |           |   |
|           |             | Display Mode     |              |              | V             |                |           |   |
|           |             |                  |              |              |               |                |           |   |
|           |             | E                | Save         | 5            |               |                |           |   |
|           |             |                  |              |              |               |                |           |   |

Step 2 Configure snapshot interval, which is recommended to be set as five minutes or longer (It will occupy bandwidth and affect transmission if the interval is too short).

Step 3 The time range of snapshot on everyday can be set. Set the start and end time of snapshot first (if the time of everyday is same, you can copy.). Click "OK" after the setting is completed.

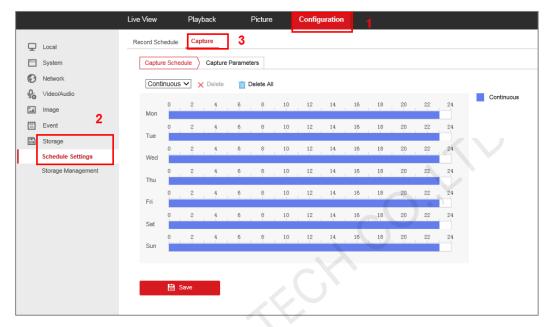


Figure 9-7 Schedule settings

Step 4 At last, click the "Save" button.

#### Note:

Do not check **Enable Event-Triggered Snapshot** in the bottom of the configuration page, for fear of influencing the effect timing snapshot.

## 9.5 FTP Uploading Parameter Settings

Step 1 Enter Configuration > Network > Advanced Settings > FTP.

Figure 9-8 FTP upload parameter settings

| Server Address          | v0.ftp.upyun.com            | Please enter server address,                                   |
|-------------------------|-----------------------------|--|
| User Name               | xuzhurong/novatest-003      | user name and password   |
| Password                | •••••                       | provided by system   |
| Confirm                 | •••••                       |  |
| Directory Structure     | Save in the child directory | •  |
| Parent Directory        | Custom                      | 140117F000000748-00_30315300C                                  |
| Child Directory         | Use Camera Name             | v 1  |
| Picture Filing Interval | OFF                         | Day(s) Please fill in the storage directory provided by system |
| Picture Name            | Default                     | T  |
|                         | Upload Picture E            | nable this option  |
|                         | Test                        |  |

Step 2 Input corresponding FTP information of LED display.

- **Parent Directory**: Select custom settings, input associated LED display snapshot storage path and the source of this information is shown in the following figure.
- **Child Directory**: Select **custom settings**. The format is only limited to the capital English letters and numbers, which shall not exceed 8-bit. Once the child directory is set well, it shall not be changed, otherwise, it will affect the display of images.
- Upload Picture: Checked.
- Step 3 Click **Test** to test and click **OK** when the prompt box of "Testing succeeded." appears.

Figure 9-9 Testing succeeded

| Note              | ×  |
|-------------------|----|
|                   |    |
| Testing succeeded |    |
|                   |    |
|                   | ок |

Step 4 Click **Save** at the bottom-right corner.

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