






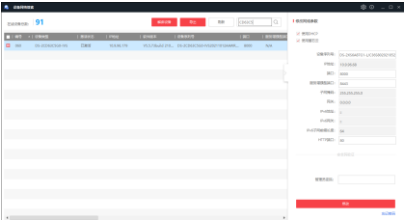


# Fisheye Camera Installation Guidance

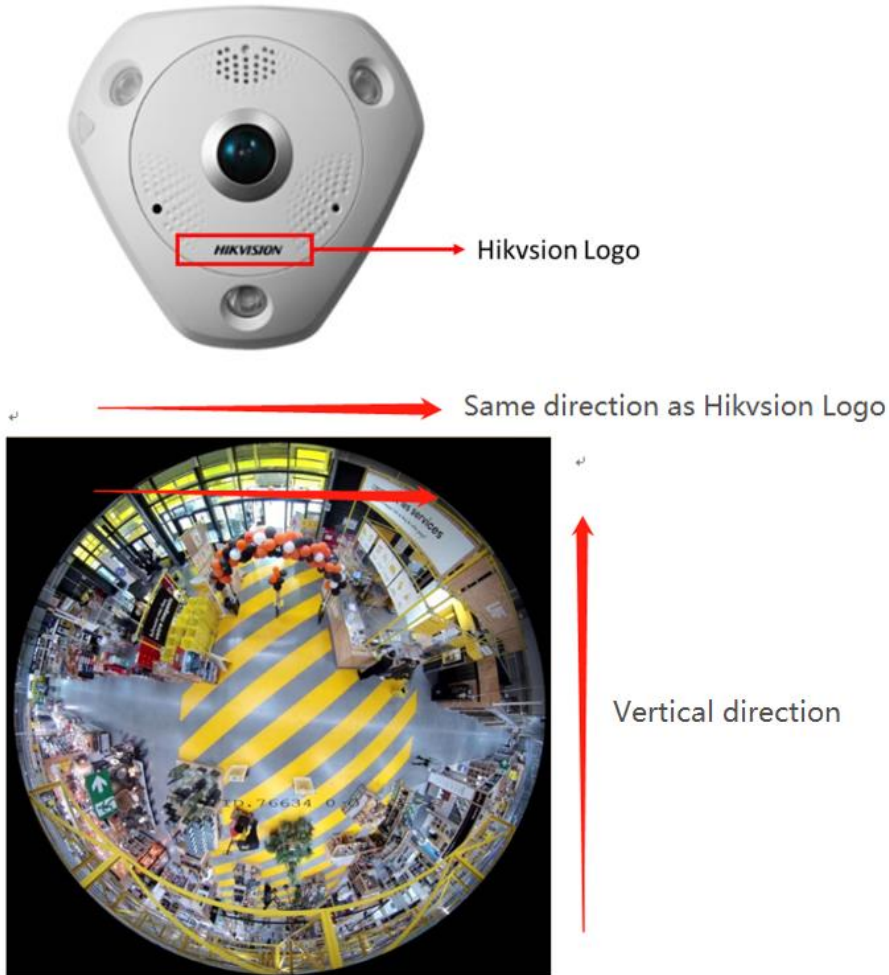
## 1. Tools Preparation

Basic wires	Network cables (2 pieces at least for connecting camera and desktop)	
Basic tools	Desktop	
	Rangefinder or tape: used to measure installation height	 

	<p>Electric drill: used for drilling and installation on the wall</p>	
	<p>Lifting frame: test the image effect at the corresponding height</p>	
	<p>Combined ladder: for climbing installation</p>	
<p>Basic software</p>	<p><b>SADP</b> Software (For checking camera IP and activating camera)  Download Link  <a href="https://www.hikvision.com/en/support/tools/hitools/">https://www.hikvision.com/en/support/tools/hitools/</a></p>	

## 2. Installation requirements

Confirm whether the Hikvision identification direction on the camera surface is completely parallel to the horizontal direction designed on the layout after the fisheye camera image is expanded. Refer to the following figure for camera installation direction:



Camera model	Installation Height (The height between camera and ground)	Heat data coverage length (Same direction as Hikvision logo when mounted)	Heat data coverage width (Vertical direction of Hikvision logo)
6365	2.5m	9.9m	9.9m
	3m	9.9m	9.9m
	3.5m	9.9m	9.9m
	3.7m	9.9m	9.9m

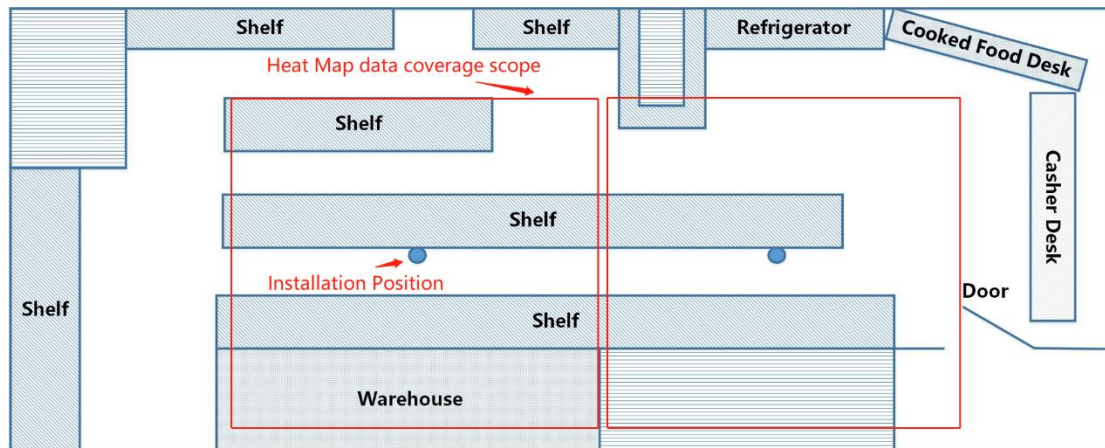
	4m	8.49m	8.49m
63C5	2.5m	14.3m	11m
	3m	14.3m	13.28m
	3.5m	14.3m	14.3m
	3.7m	14.3m	14.3m
	4m	14.3m	14.3m
	4.5m	14.3m	14.3m

### 3. Device Installation

#### 3.1 Installation site

1. According to the 2D plane figure of the store, the relationship between the camera installation height and the heat data coverage, the installation point of the fisheye camera is planned, and the heat data coverage is confirmed.

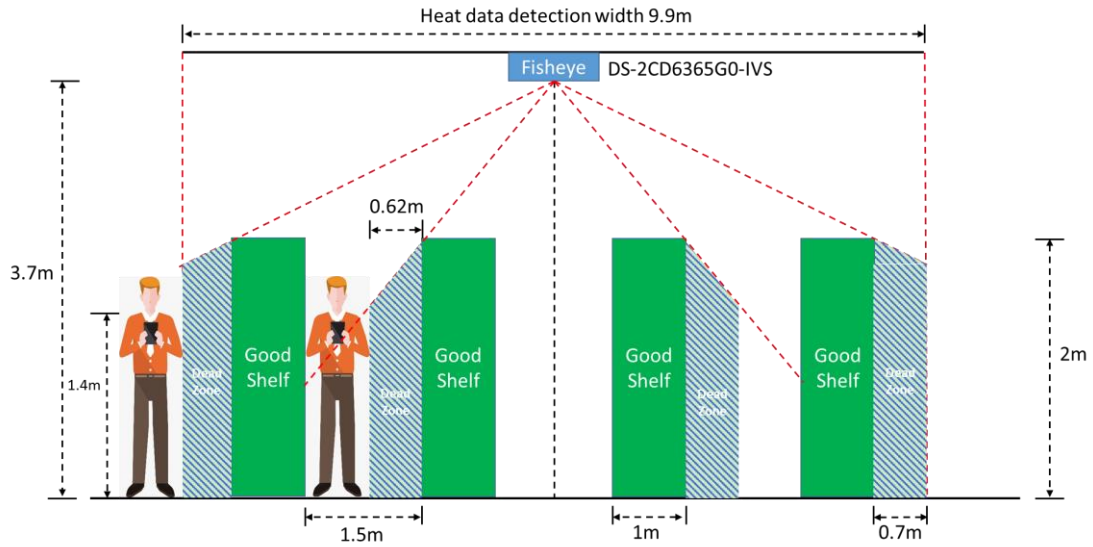
The 2D plane figure of the calibrated installation position and heat data coverage of the fisheye camera is shown in the following figure.



2. Dead Zone Calculation

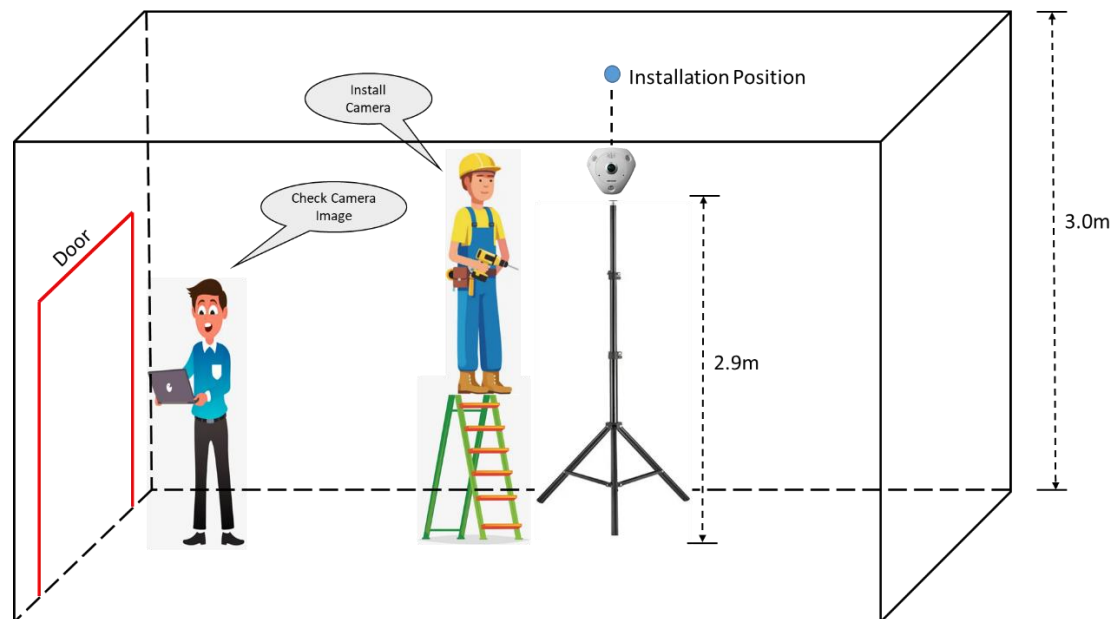
Assuming that the shelf placement direction is parallel to the Hikvision sign direction on the camera surface, the shelf height, the installation height of the fisheye camera, the detection range of heat data and the calculation method between the dead zones of heat data are shown in the following figure. Assuming that the shelf width is 1m, the shelf height is 2m, the space between shelves is 1.5m, the height of the customer shoulder from the ground is 1.4m, and the installation height of the fisheye camera is 3.7m, the width of the dead zone behind the shelves on each side in this scenario can be calculated.

The total width of the dead zone in this scene is:  $(0.7 + 0.62) * 2 = 2.64M$



### 3.2 Installation Steps

1. Confirm the actual installation position of the store according to the installation position determined on the 2D plane figure of the store.
2. Power up and connect the camera to the Internet, fix the camera on the lifting frame and place it at the predetermined installation position.



3. Connect the computer and camera to the same switch, open the SADP software, search for the camera and activate it.

The screenshot shows the SADP interface with a table of devices and an activation panel on the right.

ID	Device Type	Status	IP Address	Port	Enhanced SDK Service Port	Software Version	IP4 Gateway	HTTP Port	Device Serial No.	Subnet Mask	MAC Address
001	IDS-2CD718650-1Z5	Inactive	192.168.1.84	8000	N/A	V5.7.70build 211...	192.168.1.1	80	IDS-2CD718650-2LS20210511A88R...	255.255.255.0	4c-95-d6-69-4f

On the right, the 'Activate the Device' panel includes a lock icon, the text 'The device is not activated.', a note 'You can modify the network parameters after the device activation.', an 'Activate Now' button, password fields for 'New Password' (marked 'Weak'), 'Confirm Password', and a final 'Activate' button.

4. Internet Explorer accesses the IP of the camera and checks the image of the camera.
5. **According to the camera image, confirm whether the Hikvision identification direction on the camera surface is completely parallel to the horizontal direction designed on the layout after the fisheye image is expanded.**



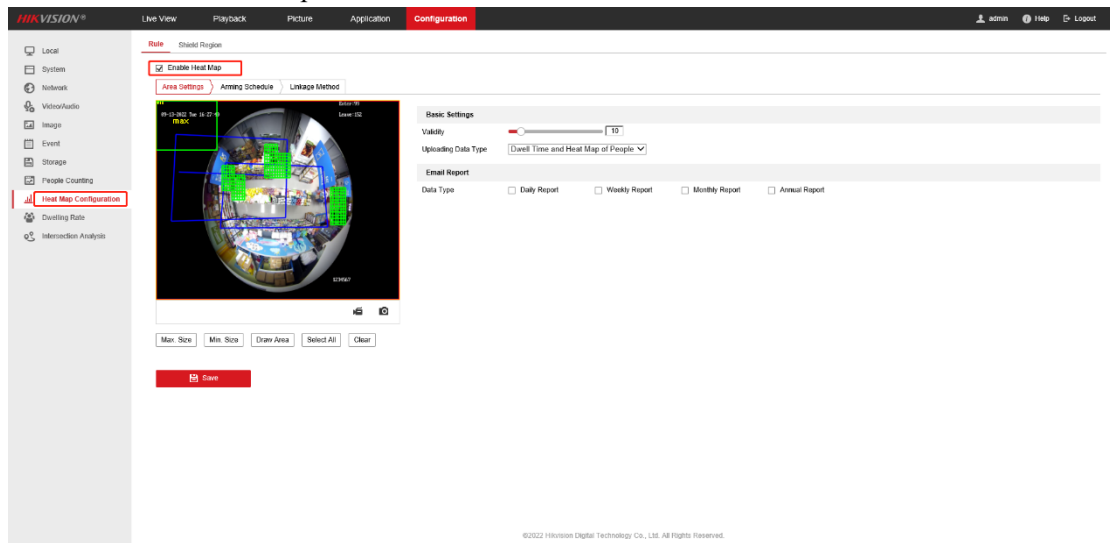
6. Drill holes to install the camera at the specified position.

### 3.3 Heat Map Rules Configuration

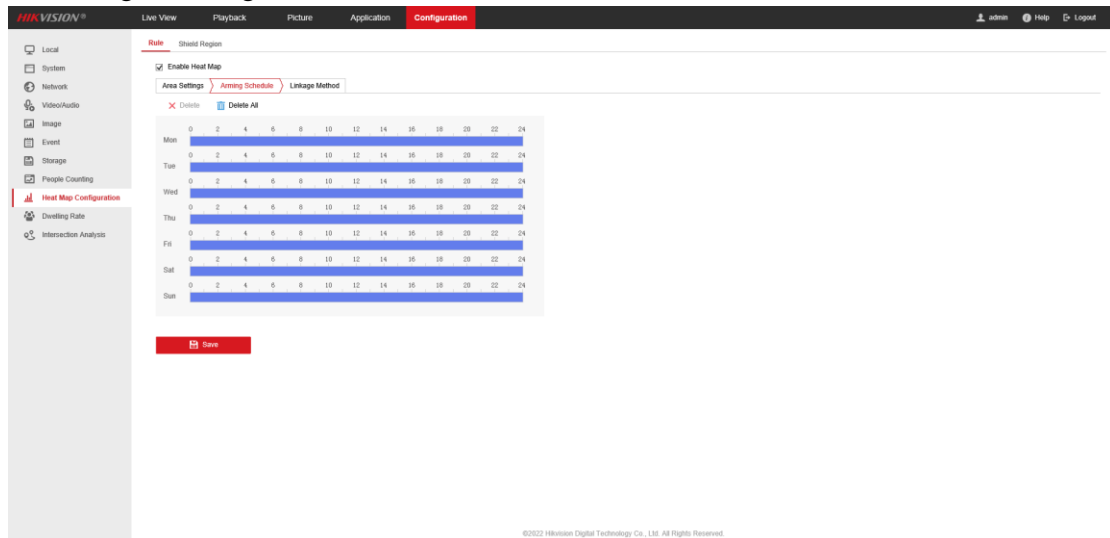
Login camera web page.

1. Enter Configuration > Heat Map Configuration, tick Enable Heat Map, and configure the Arming Schedule and Linkage Method.

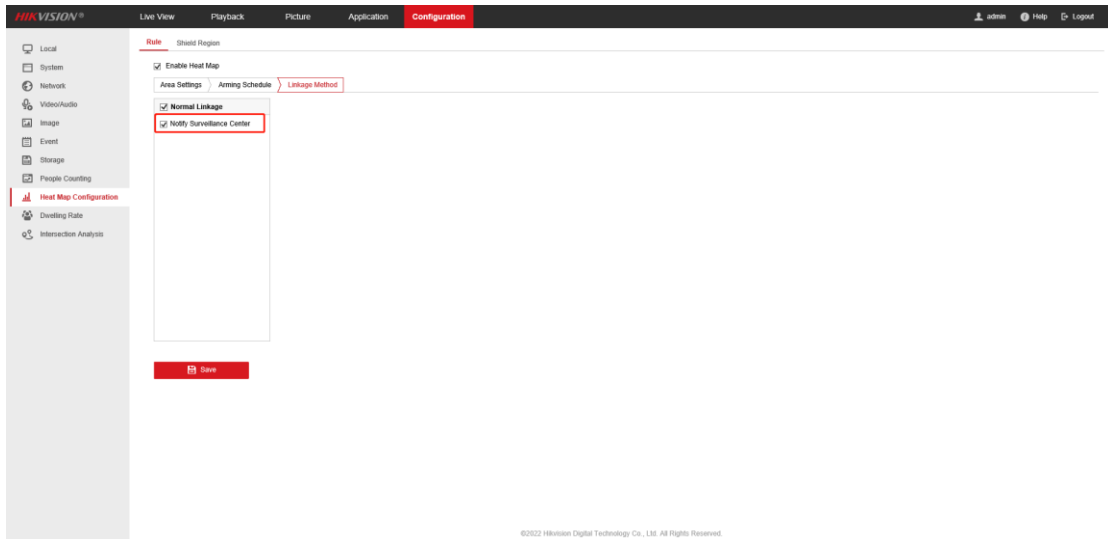
Uploading Data Type: data uploading type, which supports two types: Dwell Time and Dwell Time and Heat of People.



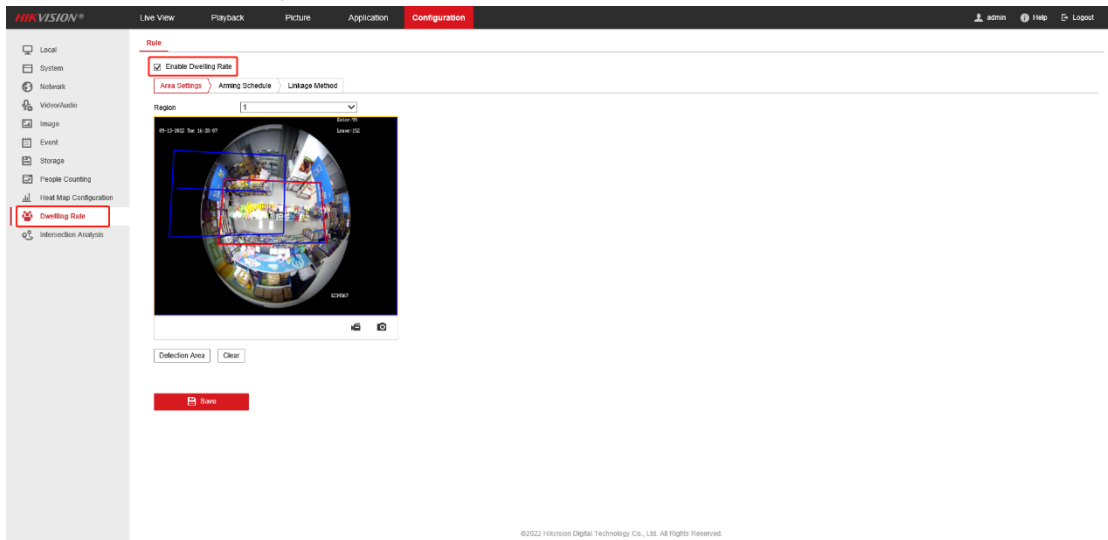
Configure arming schedule.



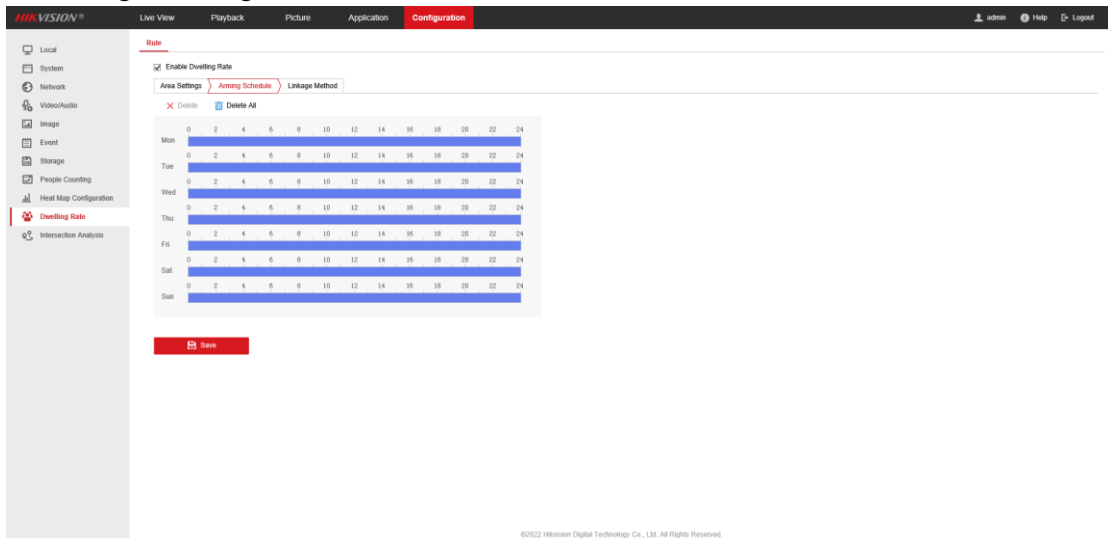
Check Notify Surveillance Center.



2. Enter Configuration > Dwelling Rate, tick Enable Dwelling Rate, and configure the Arming Schedule and Linkage Method.

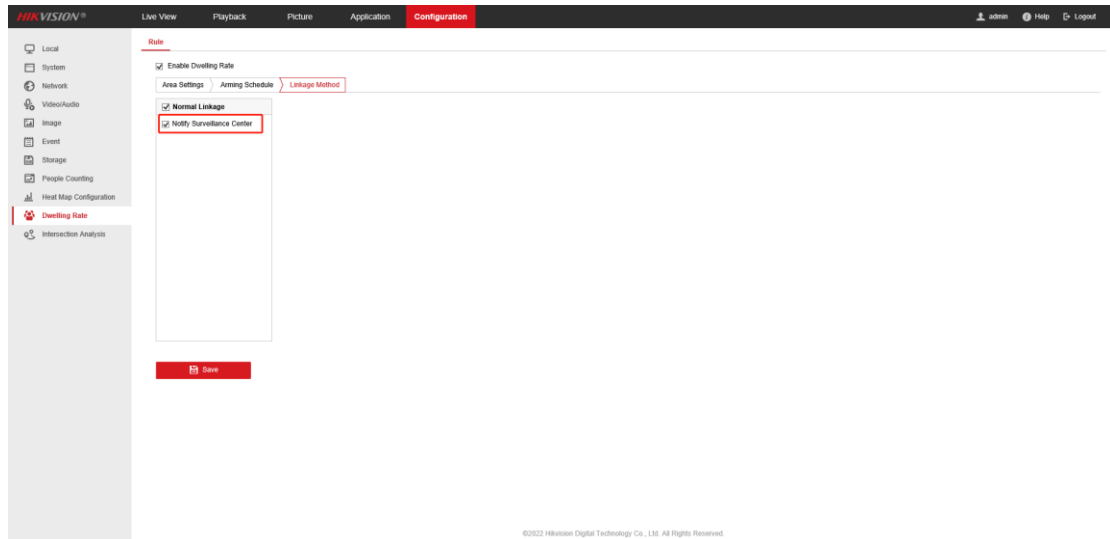


Configure arming schedule.

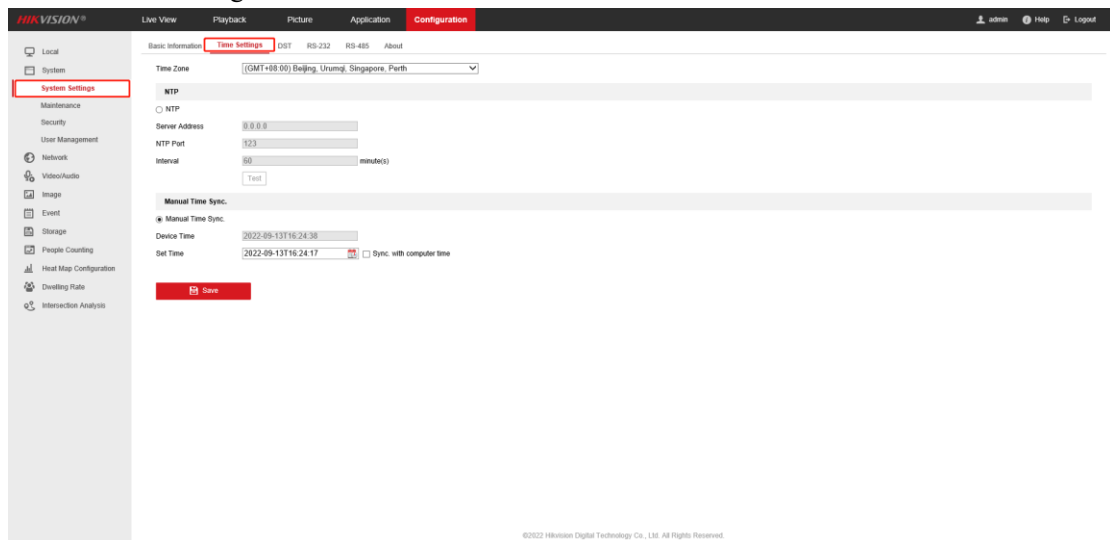


Check Notify Surveillance Center.

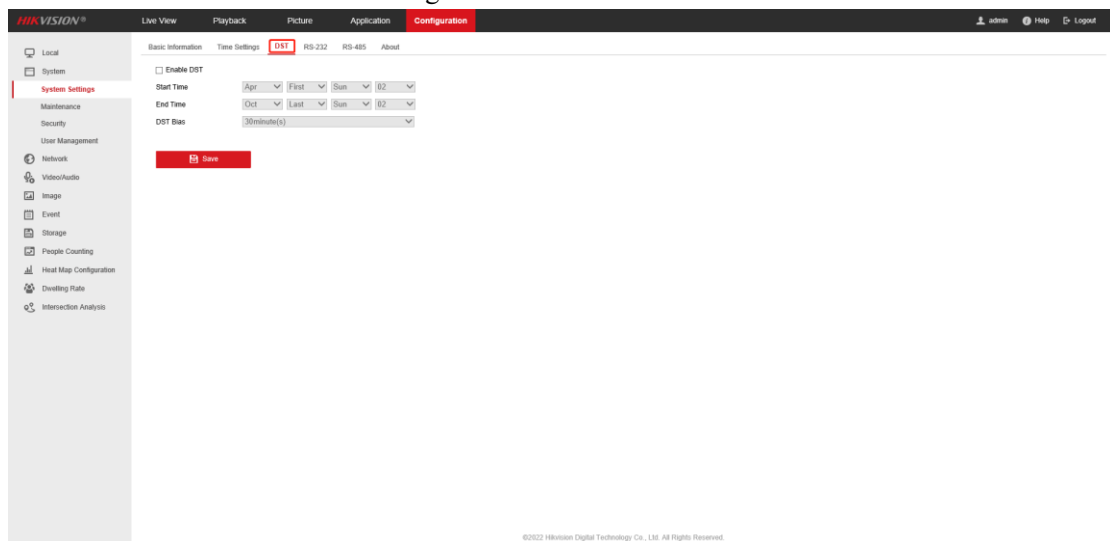




3. Enter configuration > System > System Settings, and enter Time Settings to check whether the time zone configuration is correct.




Enter DST to check if DST configuration is correct.



4. Record the camera's IP, user name, password, screenshot of live view and screenshot of rule configuration interface before leaving the site.

### 3.4 Installation Checking Items

NO.	Issue Type	Detailed Description	
1	Installation Position	Height and Installation Point	
2	Network	Able to check the normal image and live view of camera when login web page of the camera, and record camera IP and password	Record the camera's accessible IP, user name, password
3	Image	Confirm whether the Hikvision identification direction on the camera surface is completely parallel to the horizontal direction designed on the layout after the fisheye image is expanded	
4	Rules Configuration	Enable heat map rule Enable dwelling rate	