

DS-TPM400

, Terminal Guia para estacionamientos

User Manual



<u>User Manual</u>

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About this Manual

This Manual is applicable to DS-TPM400 Series Guidance Terminal.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<u>http://overseas.hikvision.com/en/</u>).

Please use this user manual under the guidance of professionals.

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Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
	Provides additional information to emphasize or supplement important points of the main text.
	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard.
- To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

Preventive and Cautionary Tips

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the guidance machine or subject it to physical shock.
- Do not place the camera in extremely hot, cold temperatures (please refer to the product specification for the operating temperature), dusty or damp environment, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Keep the guidance terminal away from water and any liquid.
- While shipping, the guidance terminal should be packed in its original packing.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.
- The additional equipment of PoE ports shall comply with requirement of fire enclosure.



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Chapter 1Introduction

1.1 Description

DS-TPM400 series guidance terminal, based on the 4-core ARM Cortex-A17 processor, is a remarkable intelligent management system used for underground garage. Adopting the advanced parking guidance and find my car system, the guidance terminal is capable of connecting multiple parking cameras to realize parking space detection, license plate recognition, guidance screen information control, video storage, playback, etc.

The guidance terminal is widely used in the parking lot of the community, business center and hotels. It greatly shortens the parking time and vehicle searching time of customers, and improves the utilization of the spare parking spaces.

Model	Description
DS-TPM400	Connectable to parking cameras via external power cord.
DS-TPM400-P	Supports PoE, and connectable to Hikvision PoE parking cameras
	of the fourth generation.

The models and description are shown in the following table.

1.2 Features and Functions

- H.264 decoding to output the parking space detection and license plate recognition algorithm results.
- Connectable to guidance screen, displaying the available parking spaces no matter it is online or offline.
- Quick access to parking cameras, and batch configuration of parking cameras to save the time cost of manual operation, monitor vehicles, and get event evidence effectively.
- Alternate indicator control. The parking camera can display the status of the

opposite parking space.

- Accessible by web browser and integrated SDK. Accessible to platform via Ehome protocol, and Hik-Connect platform.
- Dual NIC, which can connect to the internet and intranet and save IP resource.
- Optical fiber access, and HDMI output.
- 16 RJ45 network interfaces, connectable to up to 32 parking cameras. Among the 16 network interfaces, 8 interfaces support Hikvision PoE parking cameras connection. Another 4 1000M network interfaces are supported.
- 2 RS-485 serial ports to connect to the RS-485 control devices, such as guidance screen.
- Supports up to 18 TB HDD storage.

1.3 Application Scenario

Parking cameras can be connected to the guidance terminal via network to realize the integrated management, video search, record, playback, etc. Refer to the following figure for the application scenario of the guidance terminal.



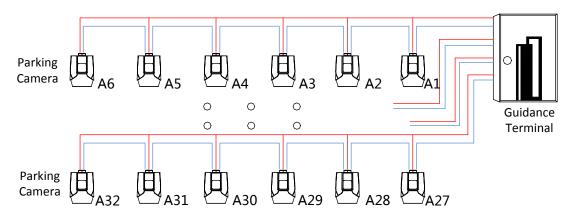


Figure 1-1 Application Scenario for DS-TPM400

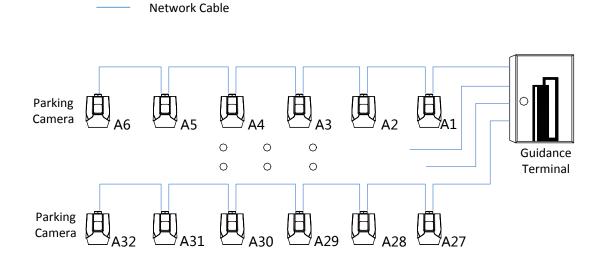


Figure 1-2 Application Scenario for DS-TPM400-P

- Refer to *User Manual of Parking Camera* for the installation.
- When PoE parking camera is connected to DS-TPM400-P guidance terminal, it can be powered by the network cable directly.
- Only the Hikvision PoE parking camera of the fourth generation can be connected to the DS-TPM400-P guidance terminal.



Chapter 2Installation

2.1 Structure Overview

2.1.1 Mainboard

Refer to the following figure and table for the interfaces of the guidance terminal. Parking cameras can be connected to the guidance terminal via corresponding interfaces.

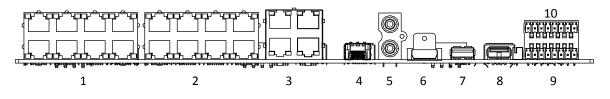


Figure 2-1 Interface	S
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No.	Name	Description
1	10/100M: Power &	8 100M network interfaces, connecting to the
1	Data	Hikvision PoE parking cameras.
2	10/100M	8 100M network interfaces for connecting to parking cameras in hand-in-hand mode. They do not support PoE.
3	10/100/1000M	4 1000M network interfaces for platform software or PC access.
4	OPT	1 optical port. SFP optical module is needed for network communication.
5	AUDIO	1-ch audio input
		1-ch audio output
6	HDMI	1 HDMI interface for connecting to the monitor to preview video.
7	USB 3.0	1 USB 3.0 interface for connecting to mouse, keyboard, USB flash drive, etc.
8	USB 2.0	1 USB 2.0 interfaces for connecting to mouse, keyboard, USB flash drive, etc.
9	RS-485 Interface	2 RS-485 interfaces for connecting to the guidance screen.

Table 1-1 Interfaces Description

		2-ch alarm input. IN and G are a pair of alarm
		input.
10	ALARM IN/OUT	2-ch alarm output. C1 and NO1 are a pair of relay
10	ALAKIVI IIN/OUT	alarm output. F2+ and F3+ are I/O alarm outputs.
		You can connect corresponding alarm input/output
		devices according to needs.

2.1.2 Power Cord

Refer to the following figure and table for the power cord description.

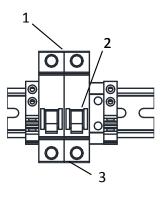


Figure 2-2 Power Cord

Table 1-2 Power Cord

No.	Name	Description
1	Power Output	220 VAC power output
2	Air Switch	1 air switch for controlling the circuit connected or disconnected, and overcurrent protection.
3	Power Input	100 to 240 VAC power input

2.2 Installation

Before you start:

Check the installation environment.

- Install the guidance terminal in the location where it is large enough to install the expansion screws.
- The installation location should bear at least 4 times of the weight of the guidance terminal and accessory.
- The installation location should be large enough to contain the guidance terminal





and accessory.

Steps:

1. Rotate the key in the keyhole of the guidance terminal and open the cover of the machine body.

If the guidance terminal supports PoE, it has 2 parts of power supply. The upper part is used to provide power for cameras and terminal with 12 VDC. The lower part is used to provide power for the PoE interfaces with 48 VDC.

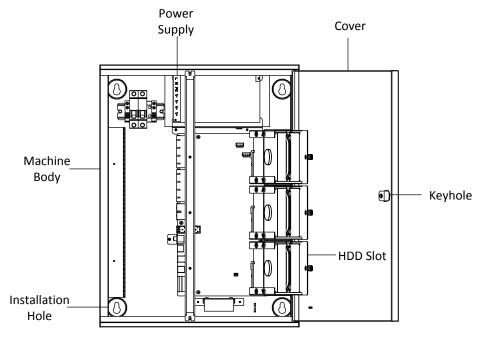


Figure 2-3 Open the Cover

- 2. Install HDD.
 - Loosen the set screws of the HDD and terminal, and lift the HDD slot to the appropriate position.
 - 2) Insert HDD to the slot, and fix it with 4 SC-CUNC6-32*5 screws.
 - Repeat step 1) and 2) to install other HDDs. Each HDD should be fixed with 4 screws.
 - 4) Lay down the HDD slot, and use M3 screw to fix the screw hole. Tighten the nut to fix the HDD slot to the terminal.
- 3. Drill 4 Ø8 screw holes on the wall according to the figure below and fasten the



expansion screws into the drilled screw holes on the wall.

Figure 2-4 Drill Screw Holes

- 4. Align the four installation holes on the machine body to the four expansion screws on the wall to hook the terminal on the screws.
- 5. Connect network cable and power cord in the machine body, and route the cables from the corresponding outlet holes according to the figure below.

- Route the power cord from strong current outlet hole and other cables from weak current outlet hole.
- The weak current outlet hole is used for routing camera power cord, network cable, etc.
- The strong current outlet hole is used for routing the 220 VAC power cord.





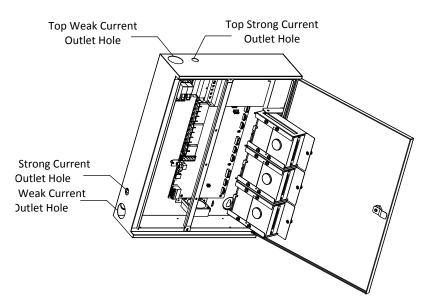


Figure 2-5 Wiring

6. Close the cover and lock the key to finish the installation.

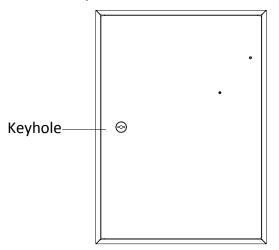


Figure 2-6 Lock the Key



Chapter 3Activation and Login

3.1 Network Connection

You shall acknowledge that the use of the product with Internet access might be under network security risks. For avoidance of any network attacks and information leakage, please strengthen your own protection. If the product does not work properly, please contact with your dealer or the nearest service center.

Other devices including LED display units, parking cameras, control platforms, etc. can be connected to the guidance terminal. The following figure takes an example of the device connection for DS-TPM400.

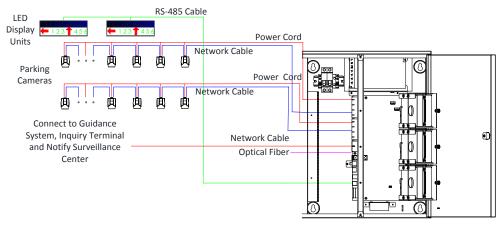


Figure 3-1 Device Connection

3.2 Activation

You need to active the device and set the password for first-time login. You can activate the device through SADP or through web browser.

- By default, the IP address of the guidance terminal is 192.0.0.64.
- The default port: 8000 port for SDK activation, 80 port for web browser activation, and 37020 port for SADP activation.



• The default user account: admin.

3.2.1 Activating via SADP

SADP software is enclosed on the compact disc. You can also download it from the company website.

Steps:

 Install SADP software. After launching the SADP software, it automatically searches the online devices every 1 minute from the subnet where your computer locates. It displays the total number and information of the searched devices in the device list. Device information including the device type, IP address, port number, gateway, etc. will be displayed as the figure below.

Tota	al numbe	r of online devices:	5						Export	Refresh	Modify Network	Parameters
	ID 🔺 I	Device Type	Security	IPv4 Address	Port	Software Version	IPv4 Gateway	HTTP Port	Device Serial No	1	Enable DHCP	
	001	DS-6708HQHI-SATA	Active	10.16.1.17	8000	V1.0.0build 1508	10.16.1.254	80	DS-6708HQHI-SATA	0820150806AA		
	002	DSI-6701HFH/V	Active	10.16.1.102	8000	V1.0.0build 1507	10.16.1.254	80	DSI-6701HFH/V0120	0150713AAWR2	Device Serial No.:	DSI-6701HFH/V0120150713AAWR
	003	UNKOWN-DEVICE-T	Active	10.16.1.93	8000	V5.3.10build 150	10.16.1.254	80	20141119CCWR4903	340679B	IP Address:	10.16.1.102
	004	iDS-2DF7284-A	Active	10.16.1.243	8000	V5.3.0build 1505	10.16.1.254	80	iDS-2DF7284-A2014	0504CCCH4629	Port	8000
	005	DS-2ZMN3006(YF)	Inactive	192.168.1.64	8000	V5.3.0build 1503	192.168.1.1	80	DS-2ZMN3006(YF)20	0150319CCWR4	Subnet Mask:	255.255.255.0
											Gateway:	10.16.1.254
											IPv6 Address:	fe80::240:3cff:fe42:7c0b
											IPv6 Gateway:	
											IPv6 Prefix Length:	64
											HTTP Port:	80
											S Admin Password:	ecurity Verification
												Modify
4												Forgot Password

Figure 3-2 SADP Activation

Select the device which you need to activate by checking the checkbox and the device information will be displayed in a list on the right side. In Activate the Device panel, create a password for the device and confirm the password. The system will judge password strength automatically, and we highly recommend you to use a strong password to ensure your data security.



	ce
The devi	ice is not activated.
You can modify	y the network parameters after
	y the network parameters after e device activation.
	e device activation.
the	e device activation.
the New Password:	e device activation. Activate Now
the New Password: Strong	e device activation. Activate Now
the New Password: Strong	e device activation. Activate Now

Figure 3-3 Create the Password

STRONG PASSWORD RECOMMENDED–A strong password ranges from 8 to 16 characters, and must contain at least two of the following categories: numbers, lowercases, uppercases and special characters. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

- 3. Click **Activate** to activate the device. A "The device is activated." hint window pops up when the password is set successfully.
- 4. Modify the network parameters. Select the device to be modified in the device list by checking the checkbox and the network parameters of the device will be displayed in **Modify Network Parameters** panel on the right side. Set the network parameters including IP address, sub network mask, gateway, etc.



I ID	Device Type	Port	Security	▲ IPv4 Address	Software Version IPv-	Gateway HTTP Port	Device Serial No	Enable DHCP	
001	iDS-2DF7284-A	8000	Active	10.16.1.243	V5.3.0build 1505 10.	16.1.254 80	iDS-2DF7284-A2014		
002	DS-6708HQHI-SATA	8000	Active	10.16.1.17	V1.0.0build 1508 10.	16.1.254 80	DS-6708HQHI-SATA	Device Serial No.:	20141119CCWR490340679E
003	DSI-6701HFH/V	8000	Active	10.16.1.102	V1.0.0build 1507 10.	16.1.254 80	DSI-6701HFH/V01	IP Address:	10.16.1.93
004	UNKOWN-DEVICE-TYPE	8000	Active	10.16.1.93	V5.3.10build 150 10.	16.1.254 80	20141119CCWR4	Port:	8000
005	DS-2ZMN3006(YF)	8000	Inactive	192.168.1.64	V5.3.0build 1503 192	.168.1.1 80	DS-2ZMN3006(YF)2	Subnet Mask:	255.255.255.0
								Gateway:	10.16.1.254
								IPv6 Address:	::
								IPv6 Gateway:	:
								IPv6 Prefix Length:	0
								HTTP Port:	80
								s	ecurity Verification
								Admin Password:	
									Modify

Figure 3-4 Modify the Parameters

5. Enter the password of the admin account of the device in the **Admin Password** field and click **Modify** to modify the parameters.

- When setting IP address, keep the device IP address and the computer IP address in the same network segment.
- "Admin" is device's administrator user. We recommend you to create a new user to operate for protecting your data security.

3.2.2 Activating via Web Browser

Steps:

1. Modify the IP address of your computer to ensure the computer IP address and the device IP address are in the same network segment.

The default IP address of the guidance terminal is 192.0.0.64.

 Input the default IP address of the guidance terminal in the address bar of the web browser and the activation interface pops up. Enter a new password and click **OK** to activate the device as the figure below.



User Name	admin
Password	
	Velid en en 10
	Vaild password range [8- 16]. You can use a combination of numbers, lo wercase, uppercase and special character for your password with at least two kinds of them contained.
Confirm Password	

Figure 3-5 Activate through Web Browser

3.3 Logging in via Web Browser

Purpose:

You can log in to the guidance terminal via web browser for further operations such as live view, playback, local configuration, etc.

Steps:

 In the address bar of the web browser, input the IP address of the guidance terminal, and press the Enter key to enter the login interface. A login window displays.

- By default, the IP address of the guidance terminal is 192.0.0.64.
- You are recommended to use web browser of IE 8 or above.
- 2. Input the user name and password of the guidance terminal.

- By default, the user name for login is **admin** and the password is **12345**.
- You are highly recommended to change the default password right after the first login to avoid safety problem.

<u>**CHANGE DEFAULT PASSWORD</u>**-The default Admin account password (12345) is for first-time log-in purposes only. You must change this default password to better</u>



protect against security risks, such as the unauthorized access by others to the product that may prevent the product from functioning properly and/or lead to other undesirable consequences.

3. Click Login.

		English 👻
User Name Password	Login	

Figure 3-6 Login Interface

4. You are required to change the default password after first login for security purpose. Click **OK** to change the password in User Management interface.

You are required to change the after first login for security purp		assword
Do not ask me again		
	OK	Cancel

Figure 3-7 Change the Default Password

5. For the first time to login, you should install the plug-in before you can access the functions. Click Please click here to download and install the plug-in. Close the browser when installing the plug-in. on the live view page, run and install the plug-in according to the prompt. After the installation of plug-in, re-open the web browser and login.

Please close your web browser during the installation of the plug-in.



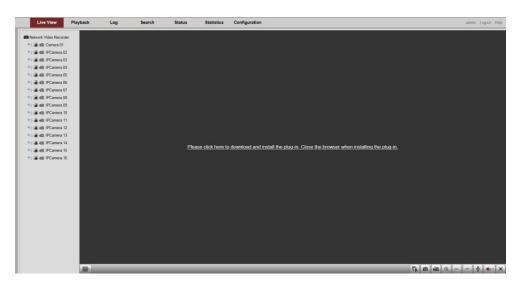


Figure 3-8 Install the Plug-in

6. After login, the interface is shown as below.



Figure 3-9 Live View Window



Chapter 4Configuration

Purpose:

The parameters, such as protocol, stream type, network, alarm, etc., can be configured via the web browser.

Click **Configuration** tab to enter the Configuration page.

4.1 Local Configuration

Steps:

1. Go to **Configuration > Local Configuration**.

Local Configuration			
Protocol	ТСР	~	
Stream Type	Main Stream	~	
Image Size	Auto-fill	~	
Record File Size	512M	~	
Live View Performance	Balanced	~	
Auto Start Live View	No	~	
Highlight Event Area	Disable	~	
Save record files to	E:\		Browse
Save snapshots in live view to	E:\		Browse
Save snapshots when playback to	E:\		Browse
Save clips to	E:\		Browse
Save downloaded files to	E:\		Browse
Save			

Figure 4-1 Local Configuration

- 2. Set the corresponding parameters such as protocol, stream type, image size, etc. as desired.
- 3. Click **Browse** to select a local saving path for the files.
- 4. Click **Save** to save the settings.

Refer to the following descriptions of local configuration parameters.

Parameter	Description
Protocol	TCP/UDP are selectable.



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Parameter	Description
Stream Type	Main Stream/Sub-Stream are selectable.
Image Size	Auto-fill/4:3/16:9 are selectable.
Record File Size	256M/512M/1G are selectable.
Live View Performance	Shortest Delay/Real Time/Balanced/Fluency are selectable.
Auto Start Live View	No/Yes are selectable.
Highlight Event Area	Enable/Disable are selectable.
Save record files to	C:\Users\TSP Web\ RecordFiles (Default Path)
Save snapshots in live view to	C:\Users\TSP Web\ CaptureFiles (Default Path)
Save snapshots when playback to	C:\Users\TSP Web\PlaybackPics (Default Path)
Save clips to	C:\Users\TSP Web\PlaybackFiles (Default Path)
Save downloaded files to	C:\Users\TSP Web\DownloadFiles (Default Path)

4.2 Remote Configuration

4.2.1 Configuring Device Parameters

Configuring Device Information

You can edit the Device Name and Device No., and view the device Model, Serial No., Firmware Version, Encoding Version, Number of Channels, Number of HDDs, Number of Alarm Input and Number of Alarm Output in the Basic Information interface.



HIKVISION®

Basic Information	
Device Name	Network Video Recorder
Device No.	255
Model	DS-TPM400-P
Serial No.	DS-TPM400-P 1620161109AARR00(
Firmware Version	V3.0.1 build 170614
Encoding Version	V5.0 build 20170605 15:32:00(lib 201
Kernal Version	v1.0.8885
Algorithm Version	PR 421143176(DET 71377548)
Number of Channels	32
Number of HDDs	1
Number of Alarm Input	3
Number of Alarm Output	3
Save	

Figure 4-2 Basic Information

Configuring Time

You can configure the time in the Time Settings interface, including Time Zone, synchronization (NTP Time Synchronization or Manual Time Synchronization).

Time Settings		
Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore	• 🗸
NTP		
Server Address	192.0.7.166	
NTP Port	123	
Interval	60 min	1.
Manual Time Sync.		
Manual Time Sync.		
Device Time	2017-06-22T15:34:19	
Set Time	2017-06-22T15:33:31	Sync. with computer time
Save		

Figure 4-3 Time Setting

NTP: After enabling NTP, the NTP server will synchronize the device time at regular

intervals. Click O before NTP to enable it, and input the Server Address, NTP Port and Interval.

Manual Time Sync.: After enabling Manual Time Synchronization, the device time



can be synchronized with the setting time or the computer time. Click Manual Time Sync. to enable it, and input the time as desired. Or you can check the checkbox of **Sync. with computer time.**

4.2.2 Managing Camera

In the IP Camera interface, the guidance terminal is capable of connecting up to 32 parking cameras.

D01 192.168.254.2 1 8000 Weak Offline(IP camera does not exist) No PRIVATE D02 192.168.254.3 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D03 192.168.254.4 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D04 192.168.254.5 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D06 192.168.254.7 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D07 192.168.254.8 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D08 192.168.254.10 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D10 192.168.254.11 1 8000 Strong Offline(IP camera does not exist) No PRIVATE D11 192.168.254.13 1 8000 Strong Offline(IP camera does not exist) <t< th=""><th>dd</th><th>Modify</th><th>Quick</th><th>Add Custom</th><th>Protocol Auto D</th><th>Distribute</th><th>IP</th><th></th><th></th><th></th></t<>	dd	Modify	Quick	Add Custom	Protocol Auto D	Distribute	IP			
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normal Parking Camera List Batch Activation	192.16	58.254.33	1	8000	Strong	Offline(IF	camera does not exis	t) No	PRIVATE	Access
	I Parking Can	mera List B	atch Activatio	n						
Camera List IP Camera Address Channel No. Management Port Secutiry Grade Status Status Protocol of	amera List	IP Came	ara Address	Channel No.	Manageme	nt Port	Secutiry Grade	Status Status	Protocol	operation

Figure 4-4 IP Camera Management

Activating Parking Camera

If the parking camera is inactive, it will be listed in the Abnormal Parking Camera List. You can activate the inactive cameras in batch.

Abnormal Parking Camera List Batch Activation								
Camera List	IP Camera Address	Channel No.	Management Port	Secutiry Grade	Status	Status	Protocol	operation
🖌 D	192.0.0.64	1	8000	Risk	Online	Inactive	PRIVATE	Access

Figure 4-5 Batch Activation

1. Check the inactive parking camera(s).



2. Click Batch Activation.

Password	•••••	
Confirm	•••••	
_		
	OK	Cancel

Figure 4-6 Batch Activation

3. Enter the password, and confirm it.

STRONG PASSWORD RECOMMENDED–We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Click **OK** to activate the camera(s).

Adding Parking Camera

- Click **Auto Distribute IP** and the IP address of the camera is auto- allocated. The fourth number of the host ranges from 2 to 17. If the IP is occupied, the number will be extended and if the IP is not in the specified network segment of the guide terminal, the IP of camera will be modified to be in the same network segment with the system.
- The status of the camera will be **Offline** if the camera is not connected.
- When the camera is connected, the IP address will be allocated according to the network interface of the camera and the fourth number of the host ranges from 2 to 17. The status of the camera will be **Online.**



Modifying Parking Camera

- 1. Select a camera and the item becomes blue.
- 2. Click Modify and you can modify the information including user name and

password.

IP Camera	
IP Camera Address	192.168.254.2
Protocol	PRIVATE
Management Port	8000
Channel No.	1
User Name	admin
Password	•••••
Confirm	•••••
Copy to OK	Back

Figure 4-7 Modify Parking Camera

3. (Optional) Click **Copy to** to copy the settings to other camera(s).

Copy to Camera					
Select A	JI				
√ D1		~			
√ D2					
√ D3					
D4		_			
D5					
D6					
D7					
D8					
D9					
_D10		~			
	ОК	Cancel			

4. Click **OK** to save the settings.

Configuring Custom Protocol

Click **Custom Protocol** to configure the protocol as follows.



Custom Protocol		
Custom Protocol	Custom Protocol1	
Protocol Name	Custom 1	
Stream Type	Main Stream	
☑ Enable Stream	2722	
Protocol	RTSP	•
Transfer Protocol	Auto	•
Port	554	
Stream Path		
		OK Cancel

Figure 4-8 Custom Protocol

Getting Access to Parking Camera

When the camera is online, you can click **Access** and a login interface for a camera is linked. Log in to the camera to configure the parking camera parameters as follows.

Live View	PI	ayback	Log	Configuration	💄 admin 🛩 Logo
Local Configuration			me Settings Mainten	ance	
 Basic Configuration System 	*	Basic Information Device Name	IP CAMERA		
Network		Device No.	88		
Video/Audio		Model	DS-TCP135		
Image		Serial No.	DS-TCP1352	20150514ACCH518954651	
Security		Firmware Version	V5.2.1 build 1	150922	
Advanced Configuration	ion ^	Encoding Version	V5.0 build 15	0921	
		Number of Channels	s 1		
		Number of HDDs	0		
		Number of Alarm Inp	out 0		
		Number of Alarm Ou	itput 0		

Figure 4-9 Access



You must configure the IP address of parking camera remote host and port before the parking camera data is received by the guidance terminal.



4.2.3 Configuring Camera

Configuring Display

In the Display Settings interface, you can configure the channel name and OSD settings.

Channel No.: Select the channel number from the dropdown list.

Camera Name: Customize a camera name.

OSD Settings: You can check the checkbox to display camera name, date and week information on the live view screen. You can also set the time and data format and display mode.

Display Settings				
Channel No.	□P Camera12 V			
Camera Name	Camera 01			
Live View		OSD Settings		
and a section of		Display Name		
Martin Street Street Street		✓ Display Date		
	0	✓ Display Week		
PAR		Time Format	24-hour	~
PLET		Date Format	MM-DD-YYYY	~
		Display Mode	Not transparent & Not flashing	~
the second s				
1	Camera 01			
Save				

Figure 4-10 OSD Settings

You can drag the name, date, week, time information to any position of the live view window.

Configuring Parking Space

You can configure the recognized parking space number, parking space area, and special parking space in parking space allocation.

1. Go to **Configuration > Remote Configuration > Camera Settings > Parking**



Space Settings.

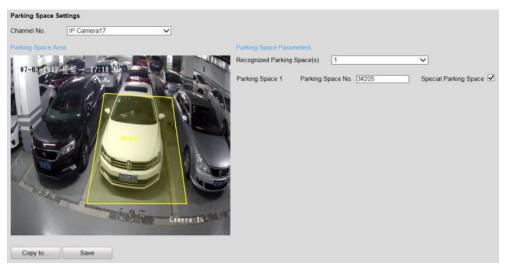


Figure 4-11 Parking Space Settings

- 2. Select the **Channel No.**
- 3. Select the number of the **Recognized Parking Space**(s) from the drop-down list.

The selectable value may vary according the camera models.

- 4. Input the **Parking Space No.** in the text filed.
- (Optional) If the space is a special space, check Special Parking Space checkbox.
- 6. Draw parking spaces.

According to the number of spaces you set, the quadrilaterals appear in the image.

- 1) Click a quadrilateral, and drag corner of the quadrilateral to adjust the shape of it, or drag the quadrilateral to adjust the location of it.
- 2) Repeat step 1) to configure other quadrilaterals.
- 7. (Optional) Click **Copy to...** to copy the settings to other cameras.
- 8. Click **Save** to save the settings.

Configuring Parking Space Indicator

The indicator displays the space status, different colors stand for different status. You can select the indicator and the color of different status.

Steps:

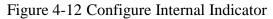
1. Go to Configuration > Remote Configuration > Camera Settings > Parking



Space Indicator.

- 2. Select the Channel No.
- 3. Select the indicator in the drop-down list of **Indicator Control Mode** on your demand, including **Internal Indicator**, **External Indicator**, and **Internal and External Indicator**.
 - If you select the **Internal Indicator** or **External Indicator**, and when all the detected parking spaces are occupied, the indicator turns to the occupied color; when the detected parking spaces are not all occupied, the indicator remains the unoccupied color.
 - If you select the **Internal and External Indicator**, the indicators work at the same time, you can respectively configure the indicator to display the status of each parking space.

Parking Space Indicator Settings						
Channel No.	IP Camera17	~				
Indicator Control Mode	Internal Indicator	~				
Parking Space Status	Enable	Indicator Flicker	Indicator Color			
Unoccupied	Yes 🗸	No 🗸	Green 🗸			
Occupied	Yes 🗸	No 🗸	Red 🗸			
Over Line	No 🗸	No 🗸	Yellow V			
Special Parking Space	No 🗸	No 🗸	Blue 🗸			
Copy to	Save					



Parking Space Indicator Settings						
Channel No.	IP Camera17	~				
Indicator Control Mode	External Indicator	~				
Parking Space Status	Enable	Indicator Flicker	Indicator Color			
Unoccupied	Yes 🗸	No 🗸	Green 🗸			
Occupied	Yes 🗸	No 🗸	Red 🗸			
Over Line	No 🗸	No 🗸	Yellow 🗸			
Special Parking Space	No 🗸	No 🗸	Blue 🗸			
Copy to	Save					

Figure 4-13 Configure External Indicator



Parking Space Indicator Settings						
Channel No.	IP Camera17	~				
Indicator Control Mode	Internal and Exte	ernal Indicator 🗸				
Parking Space 1	Indicator Source	Internal Indicator	~			
Parking Space 1						
Parking Space Status	Enable	Indicator Flicker	Indicator Color			
Unoccupied	Yes 🗸	No 🗸	Green 🗸			
Occupied	Yes 🗸	No 🗸	Red 🗸			
Over Line	No 🗸	No 🗸	Yellow V			
Special Parking Space	No 🗸	No 🗸	Blue 🗸			
Copy to	Save					

Figure 4-14 Configure Internal and External Indicator

4. Set the indicator parameters for different parking space status.

The description of different status is shown below:

Unoccupied: The space is free.

Occupied: The space is occupied by a vehicle.

Over Line: A vehicle occupied two parking spaces.

Special Parking Space: The space is specified to a certain vehicle.

- If you choose Internal and External Indicator, click the tab of the parking space No. (e.g. Parking Space 1) and select the indicator in the Indicator Source drop-down list.
- 2) Configure the following parameters on your demand.

Enable: Select **Yes** or **No** to enable or disable the indication for the corresponding status.

Indicator Flicker: Set the indicator flicker or not for the corresponding status.

Indicator Color: Choose the color of the indicator for the corresponding status.

- 5. (Optional) Click **Copy to...** to copy the settings to other cameras.
- 6. Click **Save** to save the settings.

Configuring Capture Parameters

You can configure the capture parameters as below.

Steps:

1. Go to Configuration > Remote Configuration > Camera Settings > Capture



Parameters.

2. Enable or disable the parameters as below.

Capture Settings		
Rear Plate Recognition	Disable	~
Large License Plate	Disable	~
Vehicle Color	Disable	~
Agricultural Vehicle	Disable	~
Fuzzy Recognition	Disable	~
Save		

Figure 4-15 Configure Capture Parameters

- **Rear Plate Recognition**: Enable or disable the license plate recognition when the vehicle is backed into the space.
- Large License Plate: Normally, the camera is recommended to be placed about 5 m away from the parking space to ensure the plate recognition accuracy. But if the parking camera is placed much nearer to the space than the recommended distance, the license plate possesses greater pixels in the image which will make it looks large, then you should enable the Large License Plate function to improve the accuracy of the license plate recognition.
- Vehicle Color: Enable or disable vehicle color recognition.
- Agricultural Vehicle: For the license plate of agricultural vehicles, they are much different from other ones of normal vehicles. Enable the Agricultural Vehicle function to recognize the license plate number of agricultural vehicles.
- **Fuzzy Recognition**: Enable or disable fuzzy recognition of the license plate.

Configuring Bluetooth

If Bluetooth parking camera is connected, you can configure the Bluetooth

parameters.

Steps:

1. Go to Configuration > Remote Configuration > Camera Settings > Bluetooth Settings.



Bluetooth Settings	
Channel No.	~
Bluetooth Settings	
Broadcast Time Interval(ms)	
Rated Power(db)	
Transmit Power	High 🗸
Parking Lot ID	
Parking Lot Floor Number	
Floor Parking Space Number	
Copy to Save	

Figure 4-16 Bluetooth Configuration

- 2. Select the Channel No.
- 3. Configure the Bluetooth parameters.
 - **Broadcast Time Interval**: the frequency of sending broadcast frame by Bluetooth module.
 - **Rated Power**: the signal strength received by mobile client which is 1 meter away from the parking camera.
 - **Transmit Power**: Three levels are selectable. The stronger the transmit power, the further the receivable distance.
 - **Parking Lot ID**: Hex number can be entered (0 F).
 - **Parking Lot Floor Number**: Configure according to the actual conditions.
 - Floor Parking Space Number: Configure according to the actual conditions.

Configuring Video

You can configure the video parameters in the Video Settings interface including

stream type, video type, resolution, etc.





Video Settings		
Channel No.	IP Camera1	•
Stream Type	Main Stream(Normal)	•
Video Type	Video Stream	-
Resolution	960*720	•
Bitrate Type	Variable	•
Video Quality	Medium	•
Frame Rate	25	•
Max. Bitrate	2048	Kbps
Video Encoding	H.264	-
Save		

Figure 4-17 Video Settings

Parameters	Description
Channel No.	Up to 32 channels.
Stream Type	Main Stream (Normal)/Sub Stream/Main Stream (Event) are selectable.
Video Type	Video Stream
Resolution	The higher the resolution, the clearer the image, and the larger bandwidth it needs.
Bitrate Type	Variable/Constant is selectable.
Video Quality	Highest/Higher/Medium/Low/Lower/Lowest. By default, it is Medium.
Frame Rate	The higher the frame rate, the larger bandwidth it needs, and the larger storage space it needs.
Max. Bitrate	The maximum bitrate.
Video Encoding	H.264.

Configuring Schedule

You can set the record schedule in Schedule Settings interface as follows.



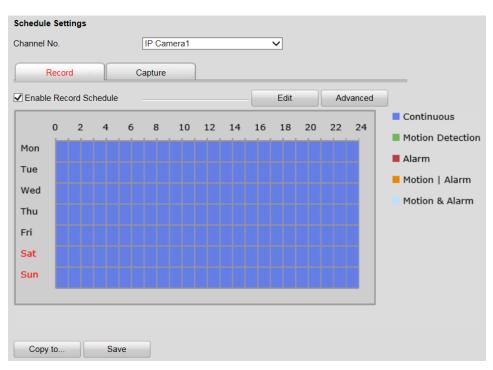


Figure 4-18 Schedule Settings

Steps:

- 1. Select the channel No. from the drop-down list.
- 2. Check the checkbox of Enable Record Schedule.
- 3. Click **Edit** to set the schedule as follows.

Mon	Tue	Wed	Thu	Fri		Sat	Sun
) All Day	Record	Соп	tinuous 🗸 🗸				
Customize							
Perio	d	Start Time		End Time		Re	cord Type
1		00 : 00	246	24 : 00	*	Continu	v suou
2		00 : 00	245	00 : 00	15	Continu	v suou
3		00 : 00	346	00 : 00	*	Continu	V suou
4		00 : 00	346	00 : 00	*	Continu	Jous 🗸
5		00 : 00	345	00 : 00	胀	Continu	Jous 🗸
6		00 : 00	346	00 : 00	**	Continu	Jous 🗸
7		00 : 00	3 1 5	00 : 00	*	Continu	Jous 🗸
8		00 : 00	246	00 : 00	*	Continu	v suou
opy to Week 5 ✔ Mon Tu	Select All	hu 🗌 Fri 🗌 Sat	_Sun C	ору		ОК	Cance

Figure 4-19 Edit Schedule

- 1) Select **All Day** or **Customize** to edit the schedule.
- 2) Select the Record Type. Continuous, Motion Detection, Alarm, Motion or



Alarm and Motion & Alarm are selectable.

- 3) If you select **Customize**, click 👑 to set the start time and end time.
- (Optional) If you want to copy the settings to other days, check the checkbox and click Copy.
- 5) Click **OK** to save the settings.
- Click Advanced in Schedule Settings interface to configure advanced settings as follows.

Advanced			
Enable ANR (cannot cop	()		
Pre-record	5s	~	
Post-record	5s	\checkmark	
Stream Type	Main Stream	~	
Record Audio	Yes	\checkmark	
Expired Time	0	Day	
		OK Can	cel

Figure 4-20 Advanced Settings

- 5. (Optional) If you want to copy all the settings to other channels, click **Copy to...** and select channels, and then click **OK**.
- 6. Click **Save** to save the settings.

Configuring Snapshot

You can configure the scheduled snapshot and event-triggered snapshot parameters including format, resolution, quality and interval.



Snapshot		
Channel No.	IP Camera1	•
Timing		
Format	JPEG	•
Resolution	704*576	•
Quality	Medium	•
Interval	2 second	•
Event-Triggered		
Format	JPEG	•
Resolution	704*576	•
Quality	Medium	•
Interval	2 second	•
Save		

Figure 4-21 Snapshot Settings

4.2.4 Configuring Network

The guidance terminal is equipped with two network interface cards and you can configure extranet and intranet parameters respectively.

Configuring TCP/IP

You can configure the IP address of the four 1000M network interface cards.

NIC Type: Auto, 10M Half-dup, 10M Full-dup, 100M Half-dup and 100M Full-dup is selectable.

The default IP address is 192.0.0.64, which is used to interact with back-end platform.

IP address, subnet mask and gateway can be configured in the following interface.



TCP/IP		
NIC Settings		
NIC Type	Auto]
IPv4 Address	10.13.4.223	DHCP
IPv4 Subnet Mask	255.255.255.0	
IPv4 Default Gateway	10.13.4.254	
IPv6 Address	fe80::212:34ff;fe56:7f8d	
IPv6 Default Gateway		
Mac Address	00:12:34:56:7f:8d	
MTU	1500	Byte
DNS Server		
Preferred DNS Server		
Alternate DNS Server		
Save		

Figure 4-22 TCP/IP Settings

- MTU: The maximum size of data packet in transmission.
- You are required to reboot the guidance terminal after modifying the IP address.

Configuring Internal Net

You can view IP Address and modify subnet mask and gateway of the 16 100M network interface cards in the following interface.

The default IP address is 192.168.254.1. The 16 network interface cards are in the same network segment, which can interact with cameras and up to 32 parking cameras can be accessed.

Network segment: 192.168.254.2~192.168.254.33. Other IP address cannot access to the guidance terminal.



Internal Net	
IP Address	192.168.254.1
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
Save	

Figure 4-23 Internal Net Settings

Configuring HTTPS

You can check the checkbox to enable HTTPS in the HTTPS interface and create self-signed certificate, certificate request and upload, download and delete certificate.

HTTPS				
Enable HTTPS	3			
Create				
Create	Create Self-	signed Certificate		
Create	Create Certi	ficate Request		
Install Signed Cer	tificate			
Certificate Path			Browse	Upload
Created Request				
Created Request			Delete	Download
Installed Certificat	e			
Installed Certificat	е		Delete	
Save				

Figure 4-24 HTTP Settings

Configuring Remote Access

You can check the checkbox to enable SSH in Remote Access interface.





Figure 4-25 Remote Access Settings

4.2.5 Configuring Serial Port

Configuring RS-232 Serial Port

RS-232 serial port parameters are for the RS-232 interface. Please keep the settings as default.

RS-232 Settings		
Baud Rate	115200	•
Data Bit	8	•
Stop Bit	1	-
Parity	None	-
Flow Ctrl	None	•
Usage	Console	-
Save		

Figure 4-26 RS-232 Settings

Configuring RS-485 Serial Port

RS-485 serial port is used for connecting to LED display units, which shows the

available parking spaces and the direction of the parking area.

RS-485 Settings	
Serial Port No	1 ~
Baud Rate	57600 ~
Data Bit	8 ~
Stop Bit	1
Parity	None
Flow Ctrl	None
Save	

Figure 4-27 RS-485 Settings



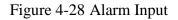
4.2.6 Configuring Alarm

Configuring Alarm Input

Steps:

- 1. Select the Alarm Input No. from the drop-down list.
- 2. Select Alarm Type as NO (Remain Open) or NC (Remain Closed).
- 3. Enter the Alarm Name.
- 4. Check **Enable** to enable the alarm input.
- 5. Click **Arming Schedule** tab to set the schedule.

Alarm Inp	ut Sett	tings													
Alarm Inpu	ut No.	A	c-1					• IP	Addres	S	Loc	al			
Alarm Typ	е	N	0				•	• Ala	arm Nai	me					(cannot copy)
🔲 Enable	1														
Armin	g Sche	dule		Linka	ge Meth	nod									
											-[E	dit		
	0	2	4	6	8	10	12	14	16	18	20	22	24		
Mon				1			11				11				
Tue															
Wed															
Thu															
Fri															
Sat															
Sun															
0.			0												
Сору	t0		Sa	ve											



6. Click **Edit** to edit the arming schedule time.



Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Period		Start Time		End Tim	пе
	1		00 : 00	3K	24 : 00)
	2		00:00	316	00 : 00)
	3		00:00	38	00 : 00) 🛃
	4		00:00	35	00 : 00	
5			00:00	38	00:00	
6			00:00		00:00	
7			00:00	38	00:00)
	8		00:00	3 <u>8</u>	00:00	
Copy to Week So	elect All	Fri 🗍 Sat 🗐	Sun Copy			
					ОК	Cancel

Figure 4-29 Edit Schedule Time

7. Click Linkage Method tab to set the parameters of Normal Linkage, Trigger

Alarm Output, and Trigger Channel.

lormal Linkage	Trigger Alarm Output	Trigger Channel	
Eull Screen Monitoring	A->1	D1	
Audible Warning	A->2	D2	
Notify Surveillance Center		D3	
Send Email		D 4	
		D5	
		D 6	
		D 7	
		D8	
		D 9	

Figure 4-30 Linkage Method

Configuring Alarm Output

Refer to the above section Alarm Input for detailed steps.



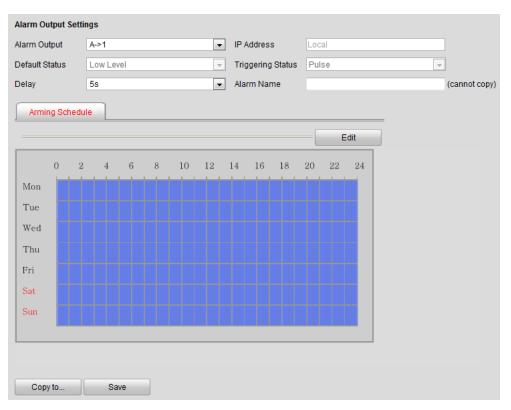


Figure 4-31 Alarm Output

Configuring Voice Alarm

Steps:

1. Enter the Voice Alarm Configuration interface.

ice Alarm Config	guration				
Add	Modify	Delete			
Serial No.	Voice	Alarm Type	Voice Alarm Priority	Voice Alarm Times	Enable Voice Alarm
A02	Spac	e Crossed	High	1	On

Figure 4-32 Voice Alarm Configuration

2. Click **Add** to add voice alarm.

Voice Alarm Configuration	
Voice Alarm Type	Multi-Spaces Occupied
Voice Alarm Priority	High 💌
Voice Alarm Times	1
Enable Voice Alarm	ON 💌
OK Back	

Figure 4-33 Add Voice Alarm



- 3. Select Voice Alarm Type, Voice Alarm Priority and Voice Alarm Times from the drop-down lists, and select Enable Voice Alarm as **ON**.
- 4. Click **OK** to save the settings.

4.2.7 Controlling Indicator

Configuring Opposite Space Detection

The opposite space detection is applicable to the parking lot that the aisle between the opposite parking spaces is very narrow. After you configure the function, the indicator of the current parking camera displays the status of opposite space, and vice versa.

The parking space indicator configuration of two cameras for opposite space detection must be the same.

Channel No.	IP Channel	Address		Status
✓ D01	192.168.	254.2		Online
D02	192.168.	254.3	b2#75 b2#76 b2#	77 Online
D03	192.168.	254.4	3#191	Offline
D04	192.168.	254.5	b2#80 b2#81 b2#	82 Online
D05	192.168.	254.6	3#197 3#198	Online
D06	192.168.	254.7	3#188 3#189 3#1	90 Online
D07	192.168.	254.8	3#202 3#203 3#2	04 Online
D08	192.168.	254.9	3#300 3#301 3#3	02 Offline
D09	192.168.2	254.10	b2#65 b2#66 b2#	67 Online
D10	192.168.2	254.11	3#300	Online
D11	192.168.2	254.12	3#300 3#301 3#3	02 Offline
D12	192.168.2	254.13	3#304	Online
D13	192.168.2	254.14	3#305	Online
D14	192.168.2	254.15	3#306	Online
D15	192.168.2	254.16	3#307	Online
D16	192.168.2	254.17	3#89	Online
D17	192.168.2	254.18	3#205	Online
D18	192.168.2	254.19	3#205 3#206	Online
D19	192.168.2	254.20	3#199 3#200 3#2	01 Online
D20	192.168.2	254.21	3#308	Online
D22	192.168.2	254.23	3#310	Online
D23	192.168.2		3#163 3#164 3#1	65 Online
D24	192.168.2	254.25	3#179 3#180	Online
D25	192.168.2	254.26	3#160 3#161 3#1	62 Online
D26	192.168.2	254.27	3#171 3#172 3#1	73 Online
D27	192.168.2		3#166 3#167 3#1	
D28	192.168.2	254.29	3#310	Online
D29	192 168 1	254 30	3#311 3#312 3#3	13 Online
Add Add Ac	ross TPM			
Channel No.	IP Channel Address	Status	Opposite TPM-IP Address	Opposite Camera IP Address
✓ D20	192.168.254.21	Online	10.96.19.244	192.168.254.22
D21	192.168.254.22	Offline	10.96.19.244	192.168.254.21

Figure 4-34 Opposite Space Detection Settings

Steps:

- 1. Check two cameras for opposite space detection.
- 2. Click Add to set the selected two cameras to detect the opposite parking space.



If the camera needs to detect the parking space of another camera under other

guidance terminal, select the camera and click Add Across TPM.

Opposite TPM- IP Address		
Opposite Camera II		~
	Add	Back

Figure 4-35 Add Across TPM

- 3. Enter Opposite TPM-IP Address and select Opposite Camera IP Address.
 - Opposite TPM is another guidance terminal which needs to be controlled.
 - Opposite camera is another parking camera which needs to be controlled.
- 4. Click **Add** to save the settings.

4.2.8 Configuring Exception

You can set the alarm output method when exception happens. Exception type includes HDD Full, HDD Error, Network Disconnected, IP Address Conflicted, Illegal Login and Record/Capture Exception. The alarm output method includes Normal Linkage (Audible Warning, Notify Surveillance Center and Send Email) and Trigger Alarm Output.

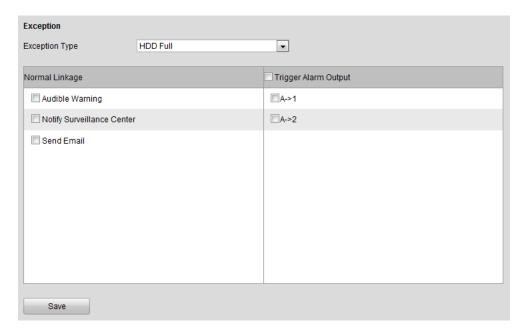






Figure 4-36 Exception

Exception Type	Description
HDD Full	All the HDD space is full.
HDD Error	Error when writing in the HDD or the HDD is not initialize.
Network Disconnected	The network is not connected.
IP Address Conflicted	IP addresses are conflicted.
Illegal Login	Wrong password.
Record/Capture Exception	Exception of record or capture.

Refer to the following descriptions of Exception Type.

4.2.9 Managing User

You can add, modify and delete users and set user permission in User Management interface.

By default, there is only one user account **admin** and the level is Administrator.

User Infor	mation		
Add	1	Modify Delete	
No.	User Name	Level	
1	admin	Administrator	

Figure 4-37 User Management

Adding a User

Steps:

- 1. Click **Add** in the User Management interface.
- 2. Enter the User Name and Password as desired.



STRONG PASSWORD RECOMMENDED - We highly recommend you create

a strong password of your own choosing (using a minimum of 8 characters, and

contains at least three kinds of following categories: upper case letters, lower case



letters, numbers, and special characters) in order to increase the security of your product.

- 3. Select the level as **Operator** or **User**.
- 4. Confirm the password.
- 5. Select the user permission including Basic Permission and Camera

Configuration Permission by checking the checkbox.

Add user	
User Name	
Level Operator 💌	
Password	
Valid password range: 8 to 16 characters. You ca	n use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.
Confirm	
Basic Permission Camera Configuration	
Local: Configuration	Remote: Configuration
Local: Upgrade/Format	Remote: Parameters Settings
C Local: Shutdown/Reboot	Remote: Log Search / Interrogate Working Status
Local: Parameters Settings	Remote: Upgrade / Format
🔽 Local: Log Search	🗹 Remote: Two-way Audio
	Remote: Shutdown / Reboot
	Remote: Notify Surveillance Center / Trigger Alarm Output
	Remote: Video Output Control
	Remote: Serial Port Control
	Remote Camera Management
OK Back	

Figure 4-38 Add a User

6. Click **OK** to save the settings.

Modifying a User

Steps:

- 1. Select the user account for modifying and click **Modify**.
- 2. You can modify the user name, password, level and permission.

- For **admin** account, you can only modify the password.
- We recommend you to use strong password for security purpose.
- 3. Click **OK** to save the settings.



Deleting a User

Select the user account for deleting and click **Delete**.

You cannot delete the **admin** account.

4.2.10 Managing HDD

The device supports HDD management for the purpose of stable and reliable storage.

Configuring Basic Settings

Steps:

1. You can select the HDD No. and set the property as R/W, Read-only or

Redundancy.

- 2. Click **Set** to save the settings.
- (Optional) Select the HDD in the list and click Format to initialize the selected HDD.



Initialization removes all the data saved in the HDD.

HDD Managemen	t				
HDD No.	Capacity	Free space	Status	Туре	Property
✓HDD01	2794.52GB	0.00GB	Normal	Local	R/W
HDD No. HD	DD1	 Property 	R/W	~	Set
HDD Initialization					
Select All					Format

Figure 4-39 HDD Management Interface

Configuring Picture Quota

You can set the space of the picture by setting Picture Quota, and the rest space will



be used to save the record files.

Picture Quota		
HDD Capacity(GB):	2794	
Picture Used Space(GB):	32	
Picture Quota(GB):	32	[10-2793]
Save		

Figure 4-40 Quota Allocation

4.2.11 Running Log

Running log is used for the research and development personnel to debug the device. *Steps*:

- 1. Check **Enable Log**. Then the log will be saved as file to save in the guidance terminal.
- 2. Check **Overwrite File**.
- 3. (Optional) Check **Enable by Period** and set the time period for saving the log.
- 4. Click **Save** to save the settings.
- 5. (Optional) Click **Export** to export the log or click **Delete** to delete the log.

Run Log			
Inable Log			
Overwrite File			
Enable by Period	2016-12-21 15:04:09	2016-12-21 15:04:09	
Log Mask [HEX]	fffffff	fffff	Default
	7 ffffff	7ffffff	
Save Ex	port Delete		
Save	Delete		

Figure 4-41 Run Log

The log mask is the module of printing log. The default log mask is to print err information.

4.2.12 Maintenance

You can operate some maintenance functions in Maintenance interface including

Reboot, Reset, etc.



Maintenance		
Reboot		
Reboot	Reboot the device.	
Auto Reboot	Automatically reboot at 0:00 a.m. every day.	
Reset		
Restore	Reset all the parameters, except the IP parameters and user information, to the default settings.	
Default	Restore all parameters to default settings.	
Repair Database	e	
Repair	Repair Database	
Import Config. F	ile	
Config File	Browse All Parameters V	Import
Status		
Export Config. F	ile	
All Parameters	Export	
Remote Upgrade	e	
Firmware	Browse Upgrade	
Status		
	rading process will be 1 to 10 minutes, please don't disconnect power to the device durin ocess. The device reboots automatically after upgrading.	

Figure 4-42 Maintenance

- The upgrading file is digicap.dav.
- The upgrading process will be 1 to 10 minutes. Please do not disconnect power to the device during the process.
- The device will reboot automatically after upgrading.

4.2.13 Connecting to Platform

The guidance terminal can connect to Ehome and Hik-Connect.

Accessing to Ehome

The guidance terminal can connect to Ehome to realize real-time monitoring,

transmission, storage, management, etc. via network.

Steps:

- 1. Go to **Configuration > Remote Configuration > Platform Settings**.
- 2. Check **Enable** checkbox.
- 3. Select the **Platform Access Mode** as **Ehome**.



Ehome V2.1-3.0, PU V2.0.0		
Enable		
Platform Access Mode	Ehome	~
Server IP	192.0.7.166	
Server Port	7660	
PUID	A331	
Register Status	offline	~
Save		

Figure 4-43 Get Access to Ehome

- 4. Enter the Server IP, Server Port, and PUID.
- 5. Click **Save** to save the settings.
- 6. Reboot the guidance terminal to take the settings into effect. Then you can view the Register Status to see if the terminal is accessed to Ehome successfully.

Accessing to Hik-Connect

Hik-Connect is a micro-video service platform. The guidance terminal can connect to

Hik-Connect to realize video/audio on demand, playback, etc.

Steps:

- 1. Go to **Configuration > Remote Configuration > Platform Settings**.
- 2. Check **Enable** checkbox.
- 3. Select the **Platform Access Mode** as **Hik-Connect**.

ezviz		
C Enable		
Platform Access Mode	Hik-Connect	~
Register Status	offline	\sim
Save		

Figure 4-44 Get Access to Hik-Connect

4. Click **Save** to save the settings.



 Reboot the guidance terminal to take the settings into effect. Then you can view the **Register Status** to see if the terminal is accessed to Hik-Connect successfully. If the status is online, register the Hik-Connect account, and add the terminal to Hik-Connect.

4.2.14 Configuring Remote Host

You can set the remote host parameters for the data uploading in the Remote Host interface.

Steps:

- 1. Select the remote host from the drop-down list.
- 2. Enter the **IP Address**, **Port** and **Uploading Timeout Interval**.
- 3. Click **Save** to save the settings.

Remote Host		
Select:	Remote Host 1	
IP Address:	10.13.4.242	
Port:	0	
Upload Timeout Interval(ms):	5000	

Figure 4-45 Remote Host

4.2.15 Viewing Status

You can view the system status in Status interface.

Viewing Network Uploading Status

You can view the network uploading status to find out if the remote host is enabled. If the status is **Disable**, you should check if the IP address and other parameters are correctly configured in Remote Host interface.



Network Uploading Status		
Host Name	Switch	Connection Status
Remote Host 1	Enable	Normal
Remote Host 2	Disable	

Figure 4-46 Uploading Status

Viewing Working Status

You can view the system time and working time in Working Status interface.

Working Status
System Time
Working Time

2017-06-26 16:40:19 + 08:00 4day 8min 17s

Figure 4-47 Working Status



Chapter 5Live View

Steps:

- 1. Open the Live View page.
- 2. (Optional) Click the icon in the live view toolbar, and select the screen layout mode.
- Double-click the camera name after selecting the display window to start the live view.

Or you can click **o** before the camera name to start the live view.

4. (Optional) Click 🔤 before the camera name to select the main stream or sub stream.



Figure 5-1 Live View Interface

Live View Toolbar:



Figure 5-2 Toolbar

On the Live View page, the following toolbar buttons are available:

Icon	Name	Description
*	Set View	Set the screen layout mode. 4 types of screen layout modes are selectable: 1-Screen, 4-Screen, 9-Screen and 16-Screen.
G	Start All Live View	Start the live view of all cameras.
Ø	Capture	Capture the picture in the live view process.



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-	Start All Recording	Start the recording of all cameras.
ŧ	Prev Page	Go for live view of the previous page.
+	Next Page	Go for live view of the next page.
ų	Start Two-way Audio	Enable the two-way audio.
4 0 4)	Audio On/Audio Off	Turn on/off the audio in live view
運	Full Screen	Display the live view in full screen mode. Press ESC to exit.





Chapter 6Playback

Purpose:

The record files stored on the HDDs on the local device can be searched and played back remotely through the web browser.

Click the **Playback** tab to enter the Playback interface.

6.1 Playback Interface

The Playback interface is shown as follows.

and a second			DS-TP	M400-F	D		
Live View	Playback	Log	Search	Status	Statistics	Configuration	admin Logout
Network Video Recor	der 🔨						Channel No. : 1 Status :
Camera 01							44 4 Jun 2017
Camera 02							Sun Mon Tue Wed Thu Fri 1 2
Camera 03							4 5 6 7 8 9
Camera 04							11 12 13 14 15 16
Camera 05							18 19 20 21 22 23
Camera 06							25 26 27 28 29 30
Camera 07							2 3 4 5 6 7
Camera 08							Q, Search
Camera 09							
Camera 10							
Camera 11							
Camera 12							
Camera 13							
Camera 14							
Camera 16							
Camera 16							
Camera 17							
Camera 18							u- ¥ 00 : 00 . 0
Camera 19		_	_	_	_	Construction Construction Construction	
Camera 20	1:00					23100 2017-06-2700:00:00 01100 02100 03100	04100 05100
Camera 21							
Camera 01				and the second second		• •	ommand 🔲 Schedule 📕 Alarm 🛄 M

Figure 6-1 Playback Interface

Playback Toolbar:



Figure 6-2 Playback Toolbar

On the Playback page, the following toolbar buttons are available:

Table 6-1 Toolbar Description

Icon	Name	Description
	Set View	Set the screen layout mode. 4 types of screen layout modes are selectable: 1-Screen, 4-Screen, 9-Screen and 16-Screen.
	Stop Playback	Stop the playback of the record files.
**	Slow Forward	Decrease the playback speed of the record files.

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Icon	Name	Description
*	Fast Forward	Increase the playback speed of the record files.
₽	Single Frame	Play back the record files frame by frame.
	Stop All Playback	Stop the playback of all the cameras.
Ō	Capture	Capture the picture in the playback process.
Ł	Download	Download the record file for backup.
જ	Start/Stop Clipping	Start/Stop clipping the record files.
4 ⊘ 4)	Audio On/Audio Off	Turn on/off the audio in live view
I	Full Screen	Display the playback in full screen mode. Press ESC to exit.
Click on t	he 1900 2000 2100	to select the time and play the record.
You can cl	ick 🔲 🖬 to zoom out o	r zoom in on the timeline.

You can input the time in the 00:00:00 and click to go to the specified time to view the record.

6.2 Searching Record Files

Steps:

- 1. Open the Playback page.
- 2. Select the cameras to be searched from the list.
- 3. Select the date on the calendar for the search.
- 4. Click Search.



Chapter 7Log

Purpose:

You can view and export the log files at any time, including operation, alarm,

exception and information of device.

Before you start:

The Log function can be realized only when the device is connected with HDD or network disk.

Click Log tab to entre the Log interface.

	22.			DS-TP	M400-F	þ					
	Live View	Playback	Log	Search	Status	Statistics	Configuration				admin Logout Hei
No		Time		Major Type	Min	or Type	Channel No.	Lo	cal/Remote User	Remote Host IP	Search Log
											Major Type
											All Types 🗸
											Minor Type
											All Types V Start Time
											2017-06-27 00:00:00
											End Time
											2017-06-27 23:59:59
											Q, Search
											H Save Log
									Total 0 Items First Page	Prev Page 0/0 Next Page Last Page	

Figure 7-1 Log Interface

7.1 Searching Log Files

Steps:

- 1. Open the Log Search page.
- Select the Major Type. There are four major types, including Alarm, Exception, Operation and Information. You can also select All Types to search all types of the log.
- 3. Select the **Minor Type**.
- 4. Click is to specify the **Start Time** and **End Time**.
- 5. Click **Search**. The log files between the start time and end time will be displayed on the list.



6. (Optional) You can click Save Log to save the searched logs.

Please narrow the time range or filter the log type for search if there are too many log files.



Chapter 8Data Search

Purpose:

You can search the data such as the license plate number, parking space number, etc.

by specifying the search condition in Search interface.

Click the **Search** tab to enter the Search interface.

] ID	Start Time: 2017-06-27 00 End Time: 2017-06-27 23 License Plate Number	23.59.59 🛅	Camera: All Parking Status: All te No. License P	✓ Lice	icense Plate Color All nse Plate Number: ng Space No. Camera	Sea	load	ng Status Others	
1 ID								ng Status Others	
ID	License Plate Number	r Parking Space	e No. License P	Plate Color Logical Parkir	ng Space No. Camera	Capt	ure Time Parkin	ng Status Others	
									progress

Figure 8-1 Search Interface

Steps:

1. Click is to specify the **Start Time** and **End Time**.

- When inputting the time, you can click 🕗 for quick selection.
- Time range cannot exceed 7 days.
- 2. Select the **Camera** from the drop-down list.
- 3. Select **Parking Status** from the drop-down list.
- 4. Select License Plate Color from the drop-down list.
- 5. (Optional) You can enter the License Plate Number for detailed search.
- 6. Click **Search**.





Chapter 9Status

Purpose:

You can view the status of the current working cameras as well as the parking space status.

Click Status tab to enter the Status interface.

Liv	e View Play	back Log Search	Status Statistics Cont	Iguration		admin Logou
Camera:	Algorithm Status	No.1 Parking Space	No.2 Parking Space	No.3 Parking Space	Vehicle Infomation	
1	Normal				License Plate:	No Plate
		Parking Space Status: Available			Pakring Space No.:	3#190
		License Plate: Indicator Flicker-free			License Plate Color:	BLUE
	Normal	Indicator Hicker-Inte	b2#76	b2#77	Camera:	6
	Normai	Parking Space Status: Occupied	Parking Space Status: Occupied	Parking Space Status: Occupied	Capture Time:	2017.06.27 08 38 57 392
		License Plate No Plate	License Plate No Plate	License Plate No Plate		
		Indicator:Flicker-free	Indicator:Flicker-free	Indicator:Flicker-free	Parking Status:	NORMAL
	Normal	b2#80	b2#81	b2#82	Logical Parking Space	e No.: 2
		Parking Space Status: Occupied	Parking Space Status: Occupied	Parking Space Status: Available	and a second	
		License Plate No Plate	License Plate:No Plate	License Plate:	Picture	
		Indicator:Flicker-free	Indicator Flicker-free	Indicator:Flicker-free		W . D. LAN
5	Normal	38197	3#198			09:10:34
		Parking Space Status: Occupied	Parking Space Status: Occupied			
		License Plate No Plate	License Plate:No Plate		6 the	and the set of the set
		Indicator:Flicker-free	Indicator Flicker-free			- 140
3	Normal	38188	3#189	3#190	A start	
		Parking Space Status: Occupied	Parking Space Status: Occupied	Parking Space Status: Occupied		
		License Plate:No Plate	License Plate:No Plate	License Plate No Plate	3	B 810 1
		Indicator Flicker-free	Indicator Flicker-free	Indicator:Flicker-free		
	Normal	3#202	3#203	3#204		
		Parking Space Status: Occupied	Parking Space Status: Occupied	Parking Space Status: Occupied	Allower and	and the second s
		License Plate No Plate	License Plate:No Plate	License Plate No Plate	and the second se	and the second s
		Indicator: Flicker-free	Indicator:Flicker-free	Indicator:Flicker-free		
	Normal	b2#65	b2#66	b2#67		Carera 85.
	2001020	Parking Space Status: Occupied	Parking Space Status: Occupied	Parking Space Status: Occupied	and the second sec	
		License Plate No Plate	License Plate No Plate	Lisense Dista Ma Dista	-	
		Indicator Flicker-free	Indicator Flicker-free	Indicator Flicker-free		

Figure 9-1 Status Interface

You can view the camera working status, the parking space information including parking space status, liscence plate, etc.

- There are two colors of the parking space box. Green means the parking space is free. Red means the parking space is occupied.
- If the colour of parking space box on the interface and the colour of the parking space light is the same, the parking space is occupied by a car.
- Every camera has three parking space lights and every light is related to one parking space. If only one light is connected to the camera, other two parking spaces are free.
- If the parking space box on the interface is coloured, click it and you can view vehicle information and picture on the right part of the interface as follows.



License Plate:	No Plate
Pakring Space No.:	3#190
License Plate Color:	BLUE
Camera:	6
Capture Time:	2017-06-27 08:38:57.392
Parking Status:	NORMAL
Logical Parking Space No.:	2

Picture

.....

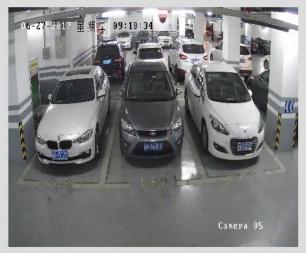


Figure 9-2 Vehicle Information





Chapter 10Statistics

Purpose:

You can view the statistics of parking space information and LED guidance screen information in Statistics interface.

Click Statistics tab to enter the Statistics interface.

10.1 Viewing Parking Space Information

You can view all the parking space information in **Parking Space Information** tab. Or you can input the following search condition and click **Search** to search the specified parking space.

Parking spaces may include local parking spaces or other parking spaces on the guidance terminal. This interface shows offline statistics.

- LED ID: LED ID is the index of external LED.
- Direction: Every LED may access to multiple directions.
- Area ID: The area is related to every direction and contains multiple parking spaces.
- Parking Space Status: Camera offline and network exception may cause parking space unknown.
- Parking Space Type: Camera offline and network exception may cause parking space unknown.
- Parking Space No.: Parking space information can be searched according to parking space number.





	Live View	Playback	Log	Search Stat	us Statistics C	onfiguration					admin Lo	pout >
Parking	Space Information	LED Guidant	e Goreen Info	mation								
	LED ID: AL		-	Direction: All	· Area ID	41 .	Search					
Pari	ing Space Status Al		• •	Parking Space Type: All	Parking Space No.							
No.	Serial No.	۵	rea ID	Parking Space No.	License Plate	Parking Space Type	Parking Space Status	Update Time	TPM IP Address	Camera	Logical Parking Space No	
25	37	1	7	25		Local Parking Space	Available	2015-12-25 17:09:58	127.0.0.1	14	2	
28	38	1	7	26		Local Parking Space	Available	2015-12-25 17:09:32	127.0.0.1	15	0	
27	30	1	7	27		Local Parking Space	Available	2015-12-25 17:09:33	127.0.0.1	15	1	
28	40	1	7	28		Local Parking Space	Available	2015-12-25 17:09:33	127.0.0.1	15	2	
29	41	1	7	29		Unknown	Unknown			0	0	
30	42	1	7	30		Unknown	Unknown			0	0	
25-31	43	1	7.	31		Unknown	Unknown			0	0	
32	44	1	8) (A)	32		Unknown	Unknown			0	0	
33	45	1	8	33		Unknown	Unknown			0	0	
34	46	1	8	34		Unknown	Unknown			0	0	
35	47	1	6	35		Unknown	Unknown			0	0	
36	48	1	9	36		Unknown	Unknown			0	0	
37	49	1	9	37		Unknown	Unknown			0	0	
30	50	1	9	38		Unknown	Unknown			0	٥	
39	51	1	9	39		Unknown	Unknown			0	0	
40	52	1	2	40		Unknown	Unknown			0	0	
61	53	1	9	41		Unknown	Unknown			0	0	

Figure 10-1 Parking Space Information Statisctics

10.2 Viewing LED Guidance Screen Information

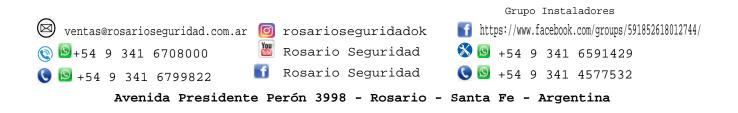
You can view all the LED guidance screen information in LED Guidance Screen Information tab.

Live View	Playback Log	Search Status	Statistics C	onfiguration					admin Logou
Purking Space Information LED Guidance Sprein Information									
No. LED ID	Serial No.	Device Type	Serial Port	LED IP	Screen Width	Screen Height	Font Color	Font Size	Display Note
1 30	39	Network Guidance Screen	0	192.168.254.226	128	32	Red	Small	Instant Display

Figure 10-2 LED Guidance Screen Information Statisctics

0300021070914







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