

PD04 Charger station

Zhejiang Huaray Technology CO., LTD.

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Network Security

Statement and Suggestions

Declaration

- By connecting the product into Internet, you have to bear related risks on your own account, including but not limited to those related to cyber attacks, hacker attacks, and virus infections. It is advised to enhance the protection for your network data, device data, and personal information. We recommend you to take necessary actions to enhance the security of your devices and network, such as changing passwords and using strong passwords whenever possible, changing passwords regularly, and updating firmware to the latest version. We are not liable for any malfunction, information leak or other problems of the product caused thereby, but we will provide security services for the product against these risks.
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- Our total compensation for all your damages is limited to the amount you paid for buying our products or services, except where relevant laws apply if our negligence has caused personal injuries or deaths.

Recommendation

Mandatory actions to be taken for cybersecurity:

1. Use a strong password

Devices that do not change the factory default password or use weak passwords are the easiest to be "hacked". Users are advised to change their default password and use a strong password (a minimum of 8 characters, including uppercase, lowercase, numbers, and symbols) whenever possible.

2. Update firmware

According to the standard operating specifications of the technology industry, the firmware of the device should be updated to the latest version to ensure that the device enjoys the latest features and security. Please visit the irayple website for the latest version of the firmware.

1. Enable HTTPS/SSL encryption

Set up an SSL certificate to enable HTTPS encrypted transmission. The information transmission between the device and the platform is fully encrypted.

2. Check log

If you want to know if your device is secure, you can check the logs to find some unusual access operations. Device logs will tell you which IP address has attempted to log in or what actions the user has taken.

3. Physical protection

For the safety of your device, we strongly recommend that you physically protect your device against unauthorized physical manipulation.

Foreword

General

This article comprehensively introduces the functional characteristics, product structure, equipment alarm, etc. of the product.

Model

RTP-4830-1-200 RTP-4830-1-300

Symbol instruction

The following categorized signal words with defined meaning might appear in the manual.

Symbol	Description
 危险	Indicates a high potential hazard, if not avoided, will result in death or serious injury.
 警告	Indicates a medium or low potential hazard, if not avoided, could result in slight or moderate injury.
 注意	Indicates a potential risk, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 电击防护	Indicates high voltage danger.
 激光辐射	Indicates strong laser radiation.
 防静电	Indicates static sensitive device.
 当心机器伤人	Indicates that equipment parts are mechanically injured.
 窍门	Provides methods to help you solve a problem or save you time.
 说明	Provides additional information as the emphasis and supplement to the

	text.
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Revision record

No.	Vision No.	Revision content	Release Time
1	V1.0.0	First release	2022.8

Safety instructions

The following is about the correct use of the product, in order to prevent danger, to prevent property damage, etc., please read this manual carefully before using the equipment and strictly abide by it when using, please keep the instructions properly after reading.

Using requirement

- Do not place and install the device in direct sunlight or near heating equipment.
- Do not install the device in a wet, dusty or soot location.
- Do not drip or splash liquids onto the device and make sure there are no items filled with liquid on the device to prevent liquid from flowing into the device.
- Please install the equipment in a well-ventilated place and do not block the ventilation of the equipment.
- The device can only be used within the rated input and output range.
- Do not disassemble and install the equipment at will.
- Please transport, use and store the device within the permissible humidity and temperature range.
- Do not stand within the braking distance of the equipment, the direction of operation of the equipment, the equipment is at least 80cm away from the equipment when running.
- Do not stand in the blind area of the equipment obstacle avoidance device identification.
- Do not put your hand or other object inside the device while the device is running

Power requirement

- Products must use the recommended wire assembly (power cord) in the region and use within their rated specifications!
- Please be sure to use the charging station equipped with the standard equipment, otherwise the personnel injury or equipment damage caused by it will be borne by the user himself.
- Please use a power supply that meets SELV (Safe Ultra Low Voltage) requirements and supply power according to IEC60950-1 Limited Power Source rated voltage, the specific power supply requirements are subject to the device label.
- Please connect the Class I structure product to the grid power output socket with a protected ground connection.
- The appliance coupler is a disconnect device, please maintain an angle that is convenient for operation when using normally.

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1 Introduction

1.1 Introduction

This product is a smart charging station for automatic charging of AGV devices.

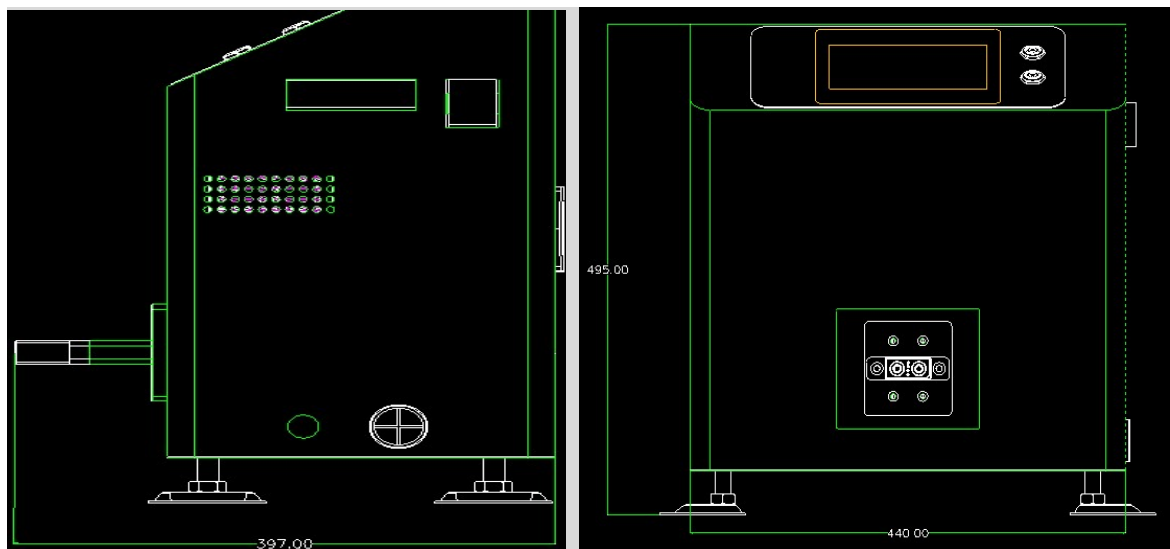
The main features are as follows.

- Support AGV for automatic and manual charging tasks.
- Unified management of charging station through wireless connection to management platform.
- Manual, automatic charging switching is possible.
- With a display screen that can display charging voltage, current and status.

1.2 Structure

1.2.1 Dimension

Structural dimension 440*397*495mm



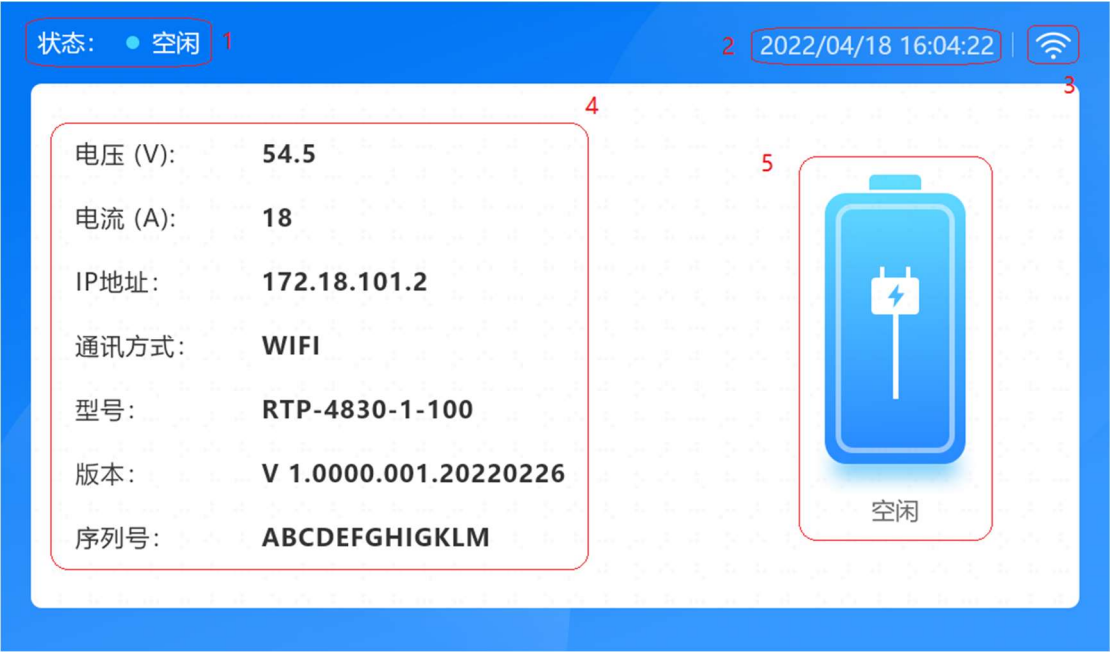
1.3 PD04 parameter

Model		
		PD04 Charger Station
Basic	Model	C060C/C100D
	Dimension L*W*H (mm)	440*397*495
	Input voltage (V)	200-240V
	Max. input current (A)	10
	Output voltage (V)	54.6
	Max. output current (A)	18
	Max. output power (W)	982.8
	Weight (kg)	25
	Communication mode	802.11b/g/n/ac 5G (Optional)
	Display screen	Support
	Charging mode	Automatic
Environment	Working temperature	0°C-50°C
	Storage humidity	5-95%

1.4 PD04 operating instruction

1、Charging station instruction and configuration environment introduction

Screen display introduction



Pic 1-1 Charging station screen

S/N	Name	Description
1	Device status display	Display the current charging station status, there are six kinds of status displays: idle, docking, docking success, charging, fault and upgrade. This state is strongly related to the display content of area 5
2	Date & Time display	Display the ntp time that is currently synchronized with the platform
3	Network status display	Display whether the current device is connected to the LAN and whether it is successfully registered on the platform
4	Charging station info display	Voltage: The real-time output voltage, in units V Current: The real-time output current, unit A IP address: When the communication mode is WIFI, the display is the IP address provided by the charging station, externally available; When the communication mode is LAN, the internal IP address of the charging station is displayed Communication mode: The communication mode of the current charging station is LAN or WIFI Model: Charging station model RTP-4830-1-200--600kg 3.0 charging station RTP-4830-1-300--600kg 4.0 charging station Version: The program version of the current charging station Serial Number: The serial number of the charging station product
5	Status icon display	Display the current charging station status, which is strongly related to the area 1, displays pictures and text of different states according to different states

Table 1-1 Charging station screen description

Charging station total structure introduction



S/N	Name	Description
1	Screen	Display charging station info
2	Power button	Power on/off
3	Charging button	Short press: Manual start/ Stop charging Long press 10~20s (Green light slow flash): Clear network configuration Long press 20~30s (Green light fast flash): Reset factory settings
4	Ethernet port	Cable connection to charging station
5	Air switch	Main power switch

1.5 Network configuration

Tips: Network configuration tool please select 220809 or higher version RobotTestTool; The current communication mode displayed on the new factory screen is LAN, and it is necessary to plug in the network cable for network configuration; In other cases, wireless network configuration can be carried out;

- 1、 If the charging station is not out of factory before configuring the network, long press charging station charging button and release until the green light fast flash, the charging station will restart and out of factory if configuration is successful
- 2、 Open RobotTestTool, click the top left button and enter network configuration tool



Pic 1-1 Robot test tool

3、 After enter network configuration, input the IP network segment which need to search, click search

序号	IP地址	序列号	详细类型	MAC地址	软件版本	状态
1	0.0.0.0	CD04	DH-RTP-4830-1	38:81:D7:19:93:0B	V1.000.0000.0.R	已初始化
2	10.35.191.109	CHARGE_600kg_3.0_02	DH-RT-4830-C-100	A8:10:87:71:69:15	V1.000.0000.0.R	已初始化
3	10.35.191.73	H200A0073	RTA-F150-L-H200A	10:2d:41:ac:fd:17	V2.003.0000000.4.R.22092909	已初始化
4	10.35.191.217	DH-charge-1010	DH-RT-4830-C-100	A8:10:87:71:5F:63	V1.000.0000.0.R	已初始化
5	10.35.191.34	AGV_600KG_3.0_34	DH-RTA-C060-Q-LI-100	60:23:a4:45:46:5f	V2.003.0000000.3.R.22092221	已初始化
6	0.0.0.0	charge_4.0_NEW_DHCP	DH-RT-4830-C-100	38:81:D7:19:8E:7C	V1.000.0000.0.R	已初始化
7	10.35.191.211	RT-4830-111	DH-RT-4830-C-100	38:81:D7:19:91:8D	V1.000.0000.0.R	已初始化
8	0.0.0.0	DH_RTP_2450	DH-RTP-2450-C	38:81:D7:19:8F:79	V1.000.0000.0.R	已初始化
9	10.35.191.74	BD23084AAK00002	RTP-24100-4-100	38:81:D7:19:8F:CE	V1.000.0000.0.R	已初始化
10	10.35.191.33	3T	RTP-4860-CLP	38:81:D7:19:91:F6	V1.000.0000.0.R	已初始化
11	10.35.191.2	AGV_3000KG_V1	RTA-C300-L-4L	60:1d:9d:85:21:28	V2.003.0000000.3.R.22091321	已初始化
12	10.35.191.139	BH01962BAK00002	RTA-C060-Q-L-200	78:f2:35:68:60:dd	V2.003.0000000.3.R.22091321	已初始化
13	10.35.191.1	7E01D42YA400001	RTA-C300-L-4L-A	50:13:95:87:24:91	V2.003.0000000.3.R.22091717	已初始化
14	10.35.191.144	7B03A73PA40001Z	DH-RTA-C060-LQ-LI-100	60:1d:9d:11:ed:08	V2.003.0000000.3.R.22091717	已初始化
15	10.35.191.41	BA05079BAK00001	DH-RTA-C060-LQ-2L2T-400	10:38:1fb8:01:97	V2.001.0000000.6.R.22053020	已初始化
16	10.35.191.202	300KG-0202-jiguang	DH-RTA-M030-LQ	44:b2:95:32:24:b1	V2.001.0000001.3.R.22090713	已初始化
17	10.35.191.114	JJ04709PA401234	RTP-4830-1-200	10:2d:41:b1:cd:c0	1.001.0000000.0.R	已初始化

Pic 1-2 Network configuring tool main interface

4、 Find the charging station needs to configure the network, click current row, then click start configuring into configuration interface

配置登入帐号和密码|JJ04709PA401234|已初始化

admin admin123456

通讯方式 WIFI

APN设置 iRayple.5gmec

国家 中国

漫游方式 打开

WIFI频段 5.8G

IP方式 固定

服务器IP 10.55.226.67

设备IP 10.55.144.127

端口 3002

WIFI名称 agv_first_12345

子网掩码 255.255.252.0

WIFI密码 88888888

默认网关 10.55.144.1

应用

Network configuration interface

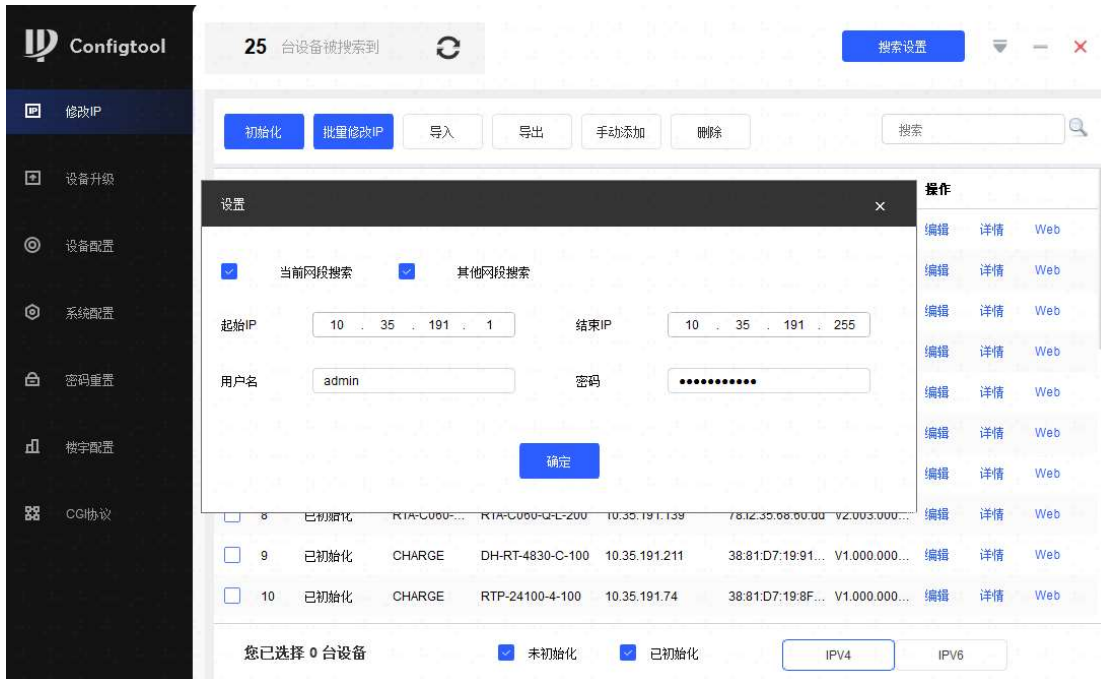
- After the parameter is set correctly, click apply and configure network, The charging station will show the IP address after configuration is successful

Note: Needs to modify the account on top left as admin, not default "root"

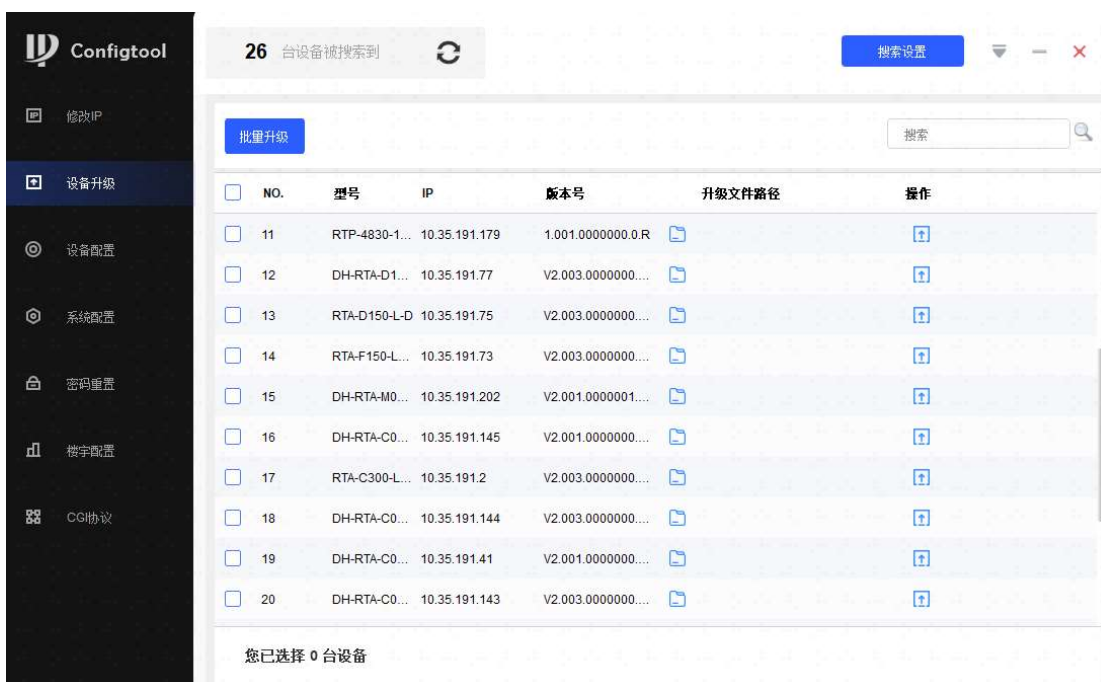
1.6 Software upgrading

Using ConfigTool (Download path: <https://support2.dahuatech.com/tools/software>) to upgrade

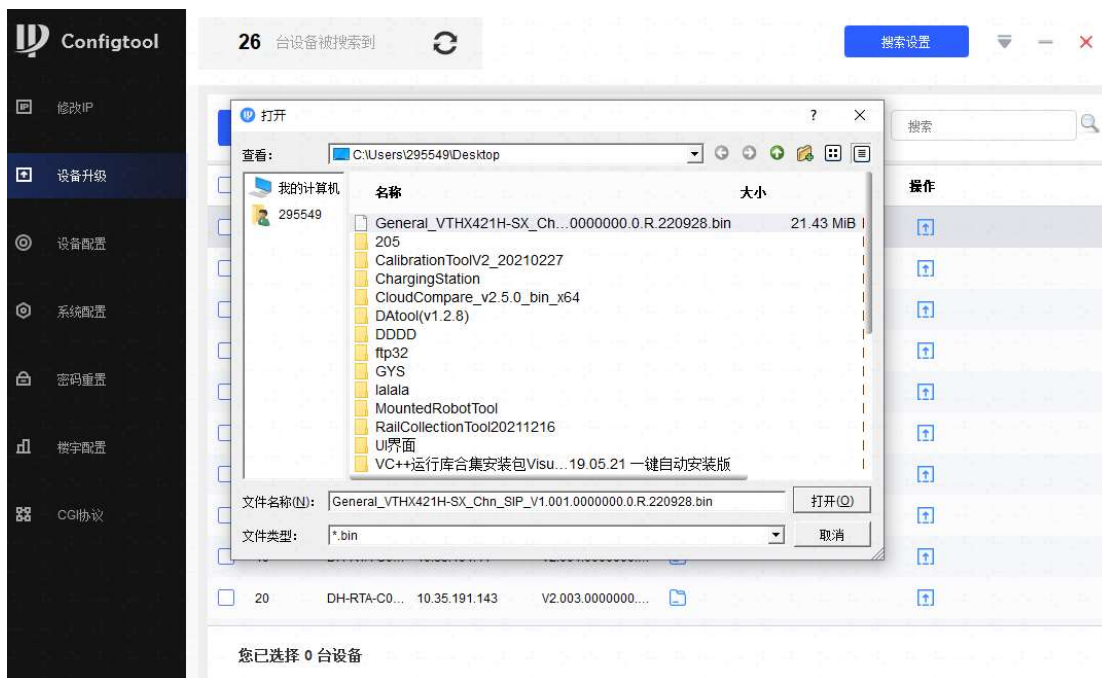
- Open  ConfigTool, Click search setting, input the device's IP network segment which needs to search, and modify password to admin123456



- Automatic search device after settings, check whether there are any charging station need to be upgraded among these searched devices , find them and click the device upgrade on the right, and enter device upgrade interface.



- After finding the charging station corresponding row, click the file upgrade icon and select upgrade file



4、 After selecting, click the right icon in operation column and complete the upgrade

