Access Standalone

Quick Start Guide



Foreword

General

This manual introduces the installation and basic operation of the Access Standalone (hereinafter referred to as "standalone").

Safety Instructions

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

Signal Words	Meaning
DANGER Indicates a high potential hazard which, if not avoided, will death or serious injury.	
WARNING Indicates a medium or low potential hazard which, if not average could result in slight or moderate injury.	
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
	Provides methods to help you solve a problem or save you time.
	Provides additional information as the emphasis and supplement to the text.

Revision History

Version	Revision Content	Release Date
V1.0.0	First release.	March 2020
V1.0.1	Add recommended installation height.	June 2020

About the Manual

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or
 - L

errors in print. If there is any doubt or dispute, please refer to our final explanation.

- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

This chapter describes the contents covering proper handling of the standalone, hazard prevention, and prevention of property damage. Read these contents carefully before using the standalone, comply with them when using, and keep it well for future reference.

Operation Requirement

- Do not place or install the standalone in a place exposed to sunlight or near the heat source.
- Keep the standalone away from dampness, dust or soot.
- Keep the standalone installed horizontally on the stable place to prevent it from falling.
- Do not drop or splash liquid onto the standalone, and make sure there is no object filled with liquid on the standalone to prevent liquid from flowing into the standalone.
- Install the standalone in a well-ventilated place, and do not block the ventilation of the standalone.
- Operate the standalone within the rated range of power input and output.
- Do not dissemble the standalone.
- Transport, use and store the standalone under the allowed humidity and temperature conditions.

Electrical Safety

- Improper battery use might result in fire, explosion, or inflammation.
- When replacing battery, make sure the same model is used.
- Use the recommended power cables in the region and conform to the rated power specification.
- Use the power adapter provided with the standalone; otherwise, it might result in people injury and device damage.
- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with rated voltage which conforms to Limited power Source requirement according to IEC60950-1. Please note that the power supply requirement is subject to the device label.
- Connect the device (I-type structure) to the power socket with protective earthing.
- The appliance coupler is a disconnection device. When using the coupler, keep the angle for easy operation.

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1 Dimensions and Components

Figure 1-1 Front view (mm [inch])

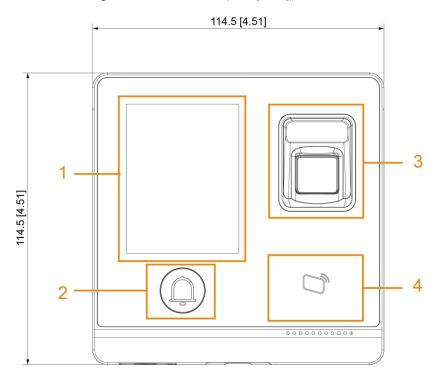


Figure 1-2 Back view (mm [inch])

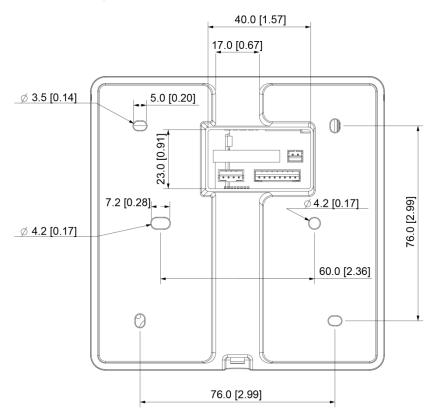


Figure 1-3 Side and bottom view (mm [inch])

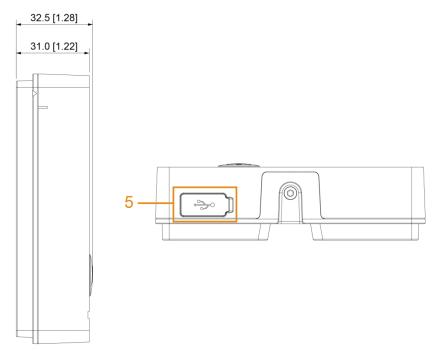


Table 1-1 Component description

No.	Name
1	VA area
2	Doorbell button
3	Fingerprint sensor
4	Card swiping area
5	USB port

2 Installation

2.1 Cable Connection

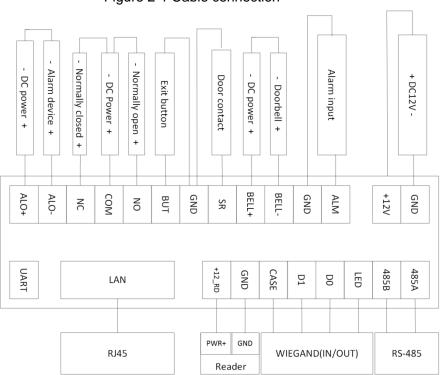


Figure 2-1 Cable connection

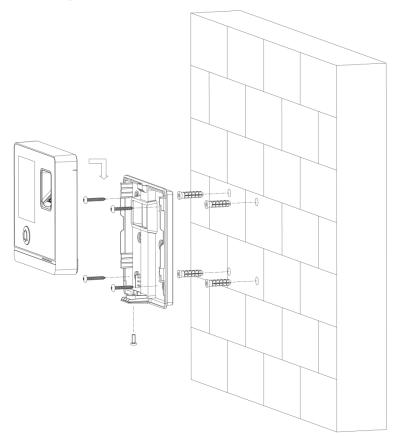
2.2 Device Installation

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The recommended installation height is 1.4–1.6 meters.

The standalone supports surface installation and concealed installation.

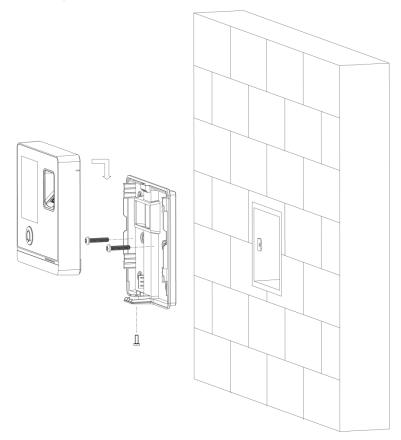
Figure 2-2 Surface installation



Installation Procedure

- <u>Step 1</u> Stick installation map on the wall, and then drill holes according to hole positions on the map.
- <u>Step 2</u> Insert expansion bolt into installation holes.
- <u>Step 3</u> Fix the rear cover onto the wall with self-tapping screws.
- Step 4 Put machine screws through the bottom hole; lock the front cover on to the rear cover.

Figure 2-3 Concealed installation



Installation Procedure

- <u>Step 1</u> Draw the cables through the outlet.
- <u>Step 2</u> Fix the back cover on the mounted box with screws.
- <u>Step 3</u> Neaten the cables and buckle the front cover onto the back cover.

3 System Operation

3.1 Initialization

Administrator password and an email should be set the first time the standalone is turned on; otherwise the standalone cannot be used.

Device Initialization			
Admin	admin		
PWD			
PWD Confirm			
E-mail			
	Yes Clear		

Figure 3-1 Initialization

 \square

- The administrator password can be reset through the email address you entered if the administrator forgets the administrator password.
- The password should consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character (excluding ' "; : &).

After the initialization is completed, the standby interface is displayed.

Figure 3-2 Standby interface



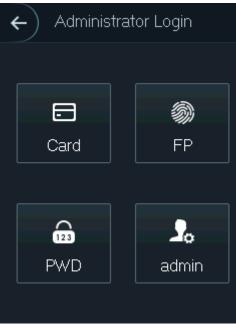
3.2 Adding New Users

You can add new users by entering their user IDs, names, importing fingerprint, passwords, selecting their user levels, and more.

Step 1 Tap

on the standby interface.

Figure 3-3 Administrator login



<u>Step 2</u> Select a main menu entering method.



The following figure is for reference only, and the actual interface shall prevail.

Figure 3-5 New user

←	New User	
User ID		1
Name		
FP		0
Card		0
PWD		
Permission		User
	〈 1/2 〉	

 $\underline{Step \ 4} \quad Configure \ parameters \ on \ the \ interface.$

Parameter	Description	
User ID	You can enter user IDs. The IDs consist of 18 characters (including numbers and	
UseriD	letters, but not special characters), and each ID is unique.	
Name	You can enter names with at most 32 characters (including numbers, symbols, and	
iname	letters).	
FP	Fingerprint registration. Record the user's fingerprints.	
Card	Card registration. Record the card information.	
PWD	The door unlocking password. The maximum length of the ID digits is 8.	
	Set the user's permission: User or Admin.	
Permission	• User: User only has the permission to unlock the door.	
Permission	• Admin: Admin has the permission to unlock the door and configure the	
	parameters.	
Period	You can set a period in which the user can unlock the door. For detailed period	
Fenou	settings, see the configuration manual.	
Holiday	You can set a holiday plan in which the user can unlock the door. For detailed	
Plan	holiday plan settings, see the configuration manual.	
Valid Date	You can set a period during which the unlocking information of the user is valid.	

User Type	 General: General users can unlock the door normally. Restricted: When users in the blacklist unlock the door, service personnel will get a prompt. Guest: Guests are allowed to unlock the door certain times in certain periods. Once they exceed the maximum times and periods, they cannot unlock the door again. Patrol: Patrolling users can get their attendance tracked, but they have no unlock authority. VIP: When VIP unlocks the door, service personnel will get a prompt. Other: When special users (such as disabled people and pregnant people) unlock the door, there will be a delay of 5 seconds before the door is closed.
Use Time	When the user level is Guest , you can set the maximum number of times that the guest can unlock the door.

<u>Step 5</u> After you have configured all the parameters, tap to save the configuration.

4 Web Operation

The standalone can be configured and operated on the web. Through the web you can set parameters including network parameters, video parameters, and standalone parameters; and you can also maintain and update the system.

Login

\square

You need to set a password and an email address before logging in to the web for the first time. Password that you set is used to log in to the web, and the email is used to retrieve passwords. <u>Step 1</u> Open IE web browser, enter the IP address (192.168.1.108 by default) of the standalone in the address bar, and then press Enter.

Figure 4-1 Login

WEB SERVICE Username: Password: Forget Password? Login	
Password: Forget Password?	WEB SERVICE
Password: Forget Password?	Username:
Forget Password?	
	Password:
Login	Forget Password
	Login

<u>Step 2</u> Enter the username and password.

 \square

- The default username of administrator is admin, and the password is the login password after initializing the standalone. Modify the administrator password regularly and keep it properly for security.
- If you forget the administrator login password, you can click Forget Password? to reset it. See the user manual.

Step 3 Click Login.

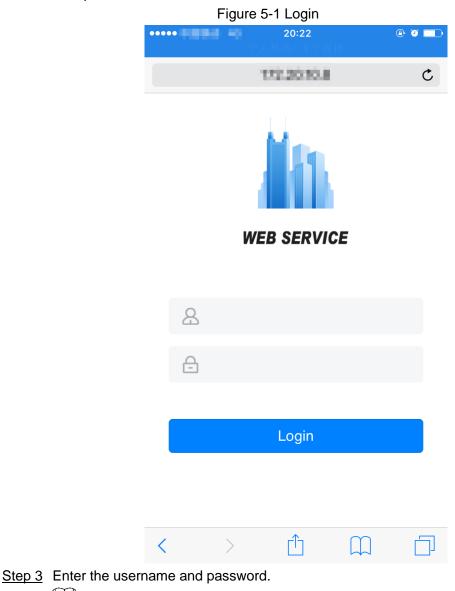
The homepage of the web is displayed.

5 Mobile Phone Operation

The standalone can be configured and operated on the mobile phone. Through the mobile phone you can set parameters including network parameters, video parameters, and standalone parameters; and you can also maintain and update the system.

Login

- Step 1 Connect the device and mobile phone to the same network.
- <u>Step 2</u> Open the browser on the mobile phone, enter the IP address (it is displayed on the Wi-Fi interface, and 192.168.1.108 by default) of the standalone in the address bar, and then press Enter.



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The default username of administrator is admin, and the password is the login password after initializing the standalone. Modify the administrator password regularly and keep it properly for security.

Step 4 Click Login.

The homepage of the web is displayed.

Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

Mandatory actions to be taken for basic equipment network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use overlapped characters, such as 111, aaa, etc.;

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your equipment (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the equipment is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your equipment network security:

1. Physical Protection

We suggest that you perform physical protection to equipment, especially storage devices. For example, place the equipment in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable equipment (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The equipment supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024~65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit web service through a secure communication channel.

7. Enable Whitelist

We suggest you to enable whitelist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the whitelist.

8. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the equipment, thus reducing the risk of ARP spoofing.

9. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

10. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

11. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

12. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check equipment log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

13. Network Log

Due to the limited storage capacity of the equipment, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

14. Construct a Safe Network Environment

In order to better ensure the safety of equipment and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is

suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.

- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- It is recommended that you enable your device's firewall or blacklist and whitelist feature to reduce the risk that your device might be attacked.

Access Standalone

User's Manual



Foreword

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This manual introduces the installation and detailed operations of the Access Standalone (hereinafter referred to as "the standalone").

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

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	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.	
[©] TIPS	Provides methods to help you solve a problem or save you time.	
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Revision History

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V1.0.0	First release.	March 2020
V1.0.1	Added recommended installation height.	June 2020
V1.0.2	Corrected certain numbers and functions.	June 2021

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- Do not place or install the standalone in a place exposed to sunlight or near the heat source.
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- Keep the standalone installed horizontally on the stable place to prevent it from falling.
- Do not drop or splash liquid onto the standalone, and make sure there is no object filled with liquid on the standalone to prevent liquid from flowing into the standalone.
- Install the standalone in a well-ventilated place, and do not block the ventilation of the standalone.
- Operate the standalone within the rated range of power input and output.
- Do not dissemble the standalone.
- Transport, use and store the standalone under the allowed humidity and temperature conditions.

Electrical Safety

- Improper battery use might result in fire, explosion, or inflammation.
- When replacing battery, make sure the same model is used.
- Use the recommended power cables in the region and conform to the rated power specification.
- Use the power adapter provided with the standalone; otherwise, it might result in people injury and device damage.
- Use power supply that meets ES1 but does not exceed PS2 limits defined in IEC 62368-1. For specific power supply requirements, refer to device labels.
- Connect the device (I-type structure) to the power socket with protective earthing.
- The appliance coupler is a disconnection device. When using the coupler, keep the angle for easy operation.

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1 Overview

1.1 Introduction

The access standalone is an access control panel that supports unlock through fingerprint, passwords, and card, and supports their combinations.

1.2 Features

- Unlock by card, fingerprint, password or their combinations, unlock button and remote control.
- Support 30,000 users, 30,000 cards, and 5,000 fingerprints.
- Store 100,000 access records and 1,000 alarm records.
- Support duress alarm, tamper alarm, and report the alarm; support 1 alarm input and 1 alarm output.
- Support general users, restricted users, guest users, patrol users, VIP users, and other users.
- Voice prompt function.
- The timer can work normally for one year after power off.
- NTP auto test function.

1.3 Dimensions and Components

Figure 1-1 Front view (mm [inch])

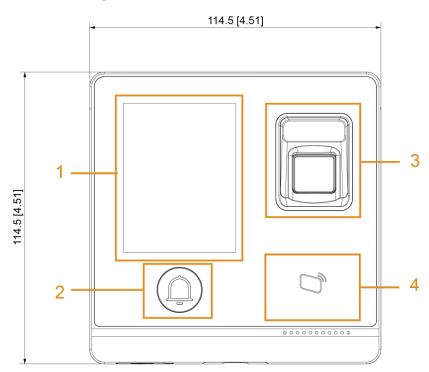


Figure 1-2 Back view (mm [inch])

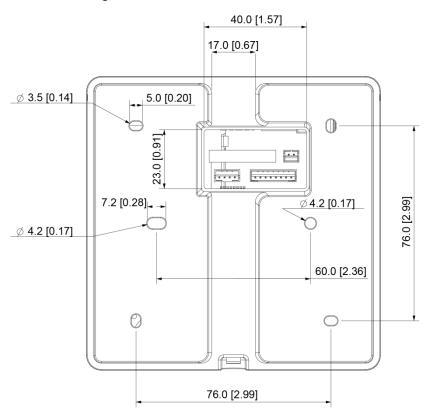
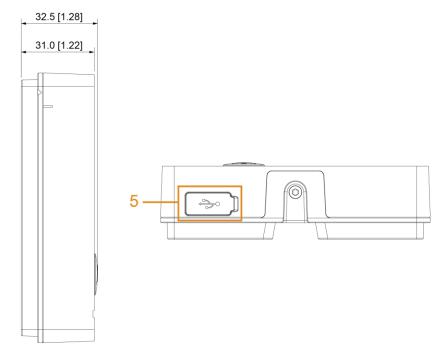


Figure 1-3 Side and bottom view (mm [inch])



No.	Name
1	VA area
2	Doorbell button
3	Fingerprint sensor
4	Card swiping area
5	USB Port

2 Installation

2.1 Cable Connections

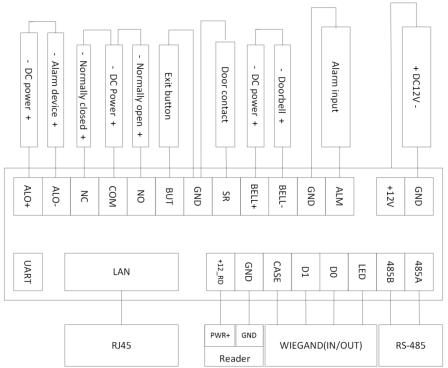


Figure 2-1 Cable connection

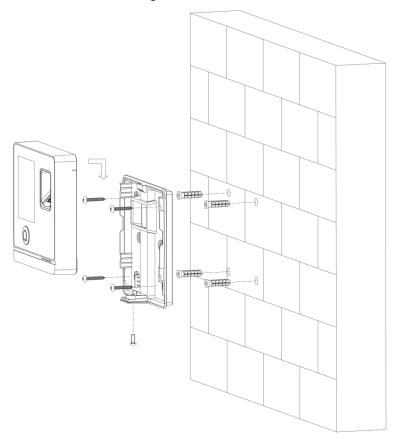
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The recommended installation height is 1.4–1.6 meters.

The standalone supports surface installation and concealed installation.

Surface installation

Figure 2-2 Surface installation

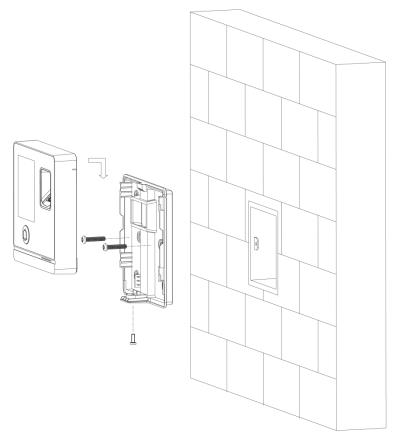


Installation Procedure

- <u>Step 1</u> Stick installation map on the wall, and then drill holes according to hole positions on the map.
- <u>Step 2</u> Insert expansion bolt into installation holes.
- <u>Step 3</u> Fix the rear cover onto the wall with self-tapping screws.
- <u>Step 4</u> Put machine screws through the bottom hole; lock the front cover on to the rear cover.

Concealed installation

Figure 2-3 Concealed installation



Installation Procedure

- <u>Step 1</u> Draw the cables through the outlet.
- <u>Step 2</u> Fix the back cover on the mounted box with screws.
- <u>Step 3</u> Neaten the cables and buckle the front cover onto the back cover.

3 System Operation

3.1 Button Description

Button	Description
K	Go to the first page.
Х	Go to the last page.
<	Go to the previous page.
>	Go to the next page.
\leftarrow	Go to the previous menu.
\rightarrow	Go to the next menu.

Table 3-1 Button description

3.2 Initialization

Administrator password and an email should be set the first time the standalone is turned on; otherwise the standalone cannot be used.

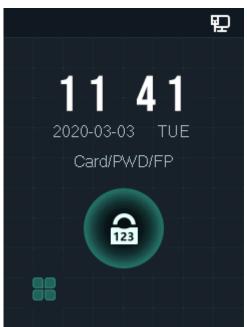
	Device	Initializ	ation	
Admin	admin			
PWD				
PWD Confirm				
E-mail				
	Yes		Clear	

Figure 3-1 Initialization

- Administrator and password set on this interface are used to log in to the web management platform.
- The administrator password can be reset through the email address you entered if the administrator forgets the administrator password.
- The password should consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character (excluding ' "; : &).

After the initialization is completed, the standby interface is displayed.

Figure 3-2 Standby interface



3.3 Standby Interface

You can unlock the door through fingerprint, passwords, and card. For details, see Table 3-2.



- If there are no operations in 30 seconds, the standalone will go to screensaver mode when the screensaver is enabled and pictures have been imported for screensaver play; After 30 seconds screensaver play, the standalone go to the standby mode.
- The following figures are for reference only, and the actual interface shall prevail.

Figure 3-3 Standby interface

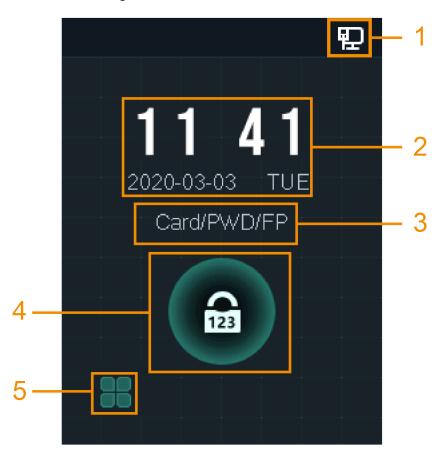


Table 3-2 Homepage description

No.	Description
1	Network status.
2	Date & Time: Current date and time.
3	Displays the configured unlock methods.
4	Password unlock icon.
5	Main menu icon.
	Only the administrator can enter the main menu.

3.4 Unlocking Methods

You can unlock the door through card, password, fingerprint, and the combination mode. For details, see "3.7.1 Unlock Mode."

3.4.1 User Passwords

Enter the user passwords, and then you can unlock the door.

Step 1 Tap on the standby interface.

- Step 2 Tap , and enter the user ID, and then tap **OK**.
- <u>Step 3</u> Enter the user password, and then tap **OK**.



3.4.2 Administrator Password

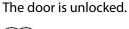
Enter the administrator password, and then you can unlock the door. The administrator password can unlock the door without being subject to user levels, unlock modes, periods, holiday plans, and anti-passback.

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- You can only set one administrator password for one standalone.
- DSS Pro can issue 100 passwords for one standalone at most.
- Administrator is not the password that was set during initialization.
- <u>Step 1</u> Tap on the homepage.



Step 2TapArrow PARDStep 3Enter the administrator password, and then tap **OK**.



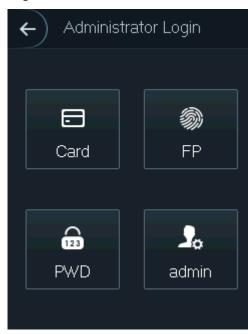
You can set and enable Administrator PWD on the Administrator PWD interface.

3.5 Main Menu

Administrators can add users of different levels, set access-related parameters, do network configuration, view access records and system information, and more in the main menu.

<u>Step 1</u> Tap **I** on the standby interface.

Figure 3-4 Administrator login



<u>Step 2</u> Select a main menu entering method.

Figure 3-5 Main menu



3.6 User Management

You can add new users, view user lists, admin lists, and modify the administrator password on the **User** interface.

3.6.1 Adding New Users

You can add new users by entering user IDs, names, importing fingerprints, cards, passwords, selecting user levels, and more.



The following figures are for reference only, and the actual interface shall prevail.

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<u>Step 1</u>	Тар	User	, and the	en tap 🐍				
				Figure 3		v user	info	
				←	Ne	ew Us	ser	C
				User ID				
				Name				
				FP				
				Card				
				PWD				
				Permissi	on			Us
					<	1/2	>	

<u>Step 2</u> Configure parameters on the interface.

Parameter	Description	
	You can enter user IDs. The IDs consist of 18 characters (including numbers and	
User ID	letters, but not special characters), and each ID is unique. The ID will be allocated	
	when you do not enter one.	
Name	You can enter names with at most 32 characters (including numbers, symbols, and	
Name	letters).	
FP	Fingerprint registration. Record the user's fingerprints.	
Card	Card registration. Record the card information.	
PWD	The door unlocking password. The maximum length of the ID digits is 8.	
	Set the user's permission: User or Admin .	
Permission	• User: User only has the permission to unlock the door.	
Permission	• Admin: Admin has the permission to unlock the door and configure the	
	parameters.	
Period	You can set a period in which the user can unlock the door.	
Holiday		
Plan	You can set a holiday plan in which the user can unlock the door.	
Valid Date	You can set a period during which the unlocking information of the user is valid.	

Parameter	Description
	General: General users can unlock the door normally.
User Type	• Restricted: When users in the blacklist unlock the door, service personnel will
	get a prompt.
	• Guest: Guests are allowed to unlock the door certain times in certain periods.
	Once they exceed the maximum times and periods, they cannot unlock the
	door again.
	• Patrol: Patrolling users can get their attendance tracked, but they have no
	unlock authority.
	• VIP: When VIP unlocks the door, service personnel will get a prompt.
	• Other: When special users (such as disabled people and pregnant people)
	unlock the door, there will be a delay of 5 seconds before the door is closed.
Use Time	When the user level is Guest, you can set the maximum number of times that the
Use nine	guest can unlock the door.

<u>Step 3</u> After you have configured all the parameters, tap D to save the configuration.

3.6.2 Viewing User information

You can search user, view user list, admin list, enable administrator password and edit and delete user information through the **User** interface.

3.7 Access Management

You can do access management on unlock mode, door status, lock holding time, door sensor type, and remote verification.



Tap Access to go to the access management interface.

3.7.1 Unlock Mode

When the **Unlock Mode** is on, users can unlock card, password, fingerprint, and the combination mode.

<u>Step 1</u> Select Assess > Unlock Mode.

Figure 3-7 Element (multiple choice)

÷	- Unlock Mode	D
	Element (Multiple Choice)	
	Card	
	🔊 FP	
	PWD	
	Combination	
	+And /Or	

<u>Step 2</u> Select unlock mode(s).

Tap a selected unlock mode again, the unlock mode will be deleted.

- <u>Step 3</u> Select a combination mode.
 - + And means "and". For example, if you selected card + FP, it means, to unlock the door, you need to swipe your card first, and then get your fingerprint scanned.
 - / **Or** means "or". For example, if you selected card/FP, it means, to unlock the door, you can either swipe your card or get your fingerprints scanned.

Step 4 Tap to save the settings.

And then the **Access** interface is displayed.

<u>Step 5</u> Enable the **Unlock Mode**.

- means enabled.
- means not enabled.

3.7.2 Door Status

There are three options: NO, NC, and Normal.

- NO: If **NO** is selected, the door status is normally open, which means the door will never be closed.
- NC: If **NC** is selected, the door status is normally closed, which means the door will not be unlocked.
- Normal: If **Normal** is selected, the door will be unlocked and locked depending on your settings.

3.7.3 Lock Holding Time

Lock Holding Time is the duration in which the door is unlocked. If the door has been unlocked for a period that exceeds the duration, the door will be automatically locked.

3.7.4 Door Sensor Type

There are two door sensor types: **NO** and **NC**.

3.7.5 Remote Verification

Tap **Remote Verification** to set the effective time, and then tap **I** to enable it. Remote verification is required when unlock doors. To unlock the door, a door unlock instruction sent by the management platform is needed.

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3.8 Network Communication

To make the standalone work normally, you need to configure parameters for network, serial ports and Wiegand ports.

3.8.1 IP Address

3.8.1.1 IP Configuration

Configure an IP address for the standalone to make it be connected to the network. For details, see Table 3-4.

Figure 3-8 IP address configuration

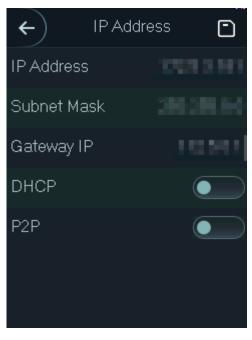


Table 3-4 IP configuration parameters

Parameter	Description
IP Address/Subnet	The IP address, subnet mask, and gateway IP address should be on the
Mask/Gateway IP	same network segment. After configuration, tap 🖸 to save the
Address	configurations.
	DHCP (Dynamic Host Configuration Protocol).
DHCP	When the DHCP is enabled, the IP address can be automatically acquired,
DHCP	and the IP address, subnet mask and gateway IP address cannot be
	manually configured.
	P2P is a private network traversal technology which enables user to
P2P	manage devices without requiring DDNS, port mapping or transit server.

3.8.1.2 Wi-Fi

You can connect the standalone to the network through Wi-Fi when the Wi-Fi function is enabled.





3.8.2 Wiegand Configuration

Select **Wiegand Input** or **Wiegand Output** according to the entering direction and exiting direction.

Select **Comm > Wiegand**, and then the **Wiegand** interface is displayed.

Figure 3-10 Wiegand



- Select **Wiegand Input** when an external card swipe mechanism is connected to the standalone.
- Select **Wiegand Output** when the standalone works as a reader that can be connected to the controller. See Table 3-5.

Table 3-5 Wiegand output

Parameter	Description			
	The Wiegand output type determines the card number or the digit of			
	the number than can be recognized by the standalone.			
Wiegand output type	Wiegand26, three bytes, six digits.			
	• Wiegand34, four bytes, eight digits.			
	Wiegand66, eight bytes, sixteen digits.			
Pulse Width	You can get pulse width and pulse interval			
Pulse Interval	You can set pulse width and pulse interval.			
	You can select the types of output data.			
	• User ID: If User ID is selected, and then user ID will be output.			
Output Data Type	• Card No.: If Card No. is selected, and then card number will be			
	output.			

3.8.3 TCP Port

The range is 1025-65535, and it is 37777 by default. If you modify the port, the system will restart automatically.

3.8.4 Serial Port Settings

Select serial input or serial output according to the entering direction and exiting direction.

Select Comm > Serial Port.



Figure 3-11 Serial port

- Select **Serial Input** when external devices that are with card reading and writing functions are connected to the standalone. **Serial Input** is selected to enable access card information to be sent to the standalone and the management platform.
- For standalones with fingerprint recognition, card reading and writing functions, if you select **Serial Output**, standalone will send card number or user ID to the controller.
- Select **OSDP Input** when card reader of OSDP protocol is connected to the standalone.

3.9 System

3.9.1 Time

You can enable **24-hour System**, and do date format setting, date setting, time setting, and time zone settings.

3.9.2 Volume Adjustment

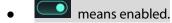
Tap _____ or 🛨 to adjust the volume.

3.9.3 ScreenSaver

Enable ScreenSaver, the screen saver will be displayed if there is no operation in 30 seconds.

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 To display the screen saver, you need to import pictures first. For details, see "3.10.4 Screensaver."



means not enabled.

3.9.4 Privacy Setting

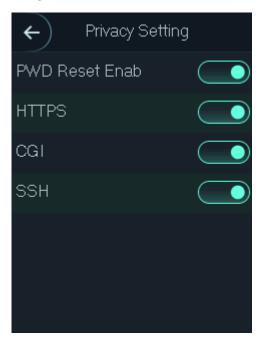


Figure 3-12 Privacy setting

Table 3-6 Features

Parameter	Description		
PWD Reset	If the PWD Reset Enable function is enabled, you can reset the password.		
Enable	The PWD Reset function is enabled by default.		
	Hypertext Transfer Protocol Secure (HTTPS) is a protocol for secure		
	communication over a computer network.		
HTTPS	When HTTPS is enabled, HTTPS will be used to access CGI commands; otherwise		
	HTTP will be used.		
	Common Gateway Interface (CGI) offers a standard protocol for web servers to		
	execute programs that execute like console applications running on a server		
CGI	that generates web pages dynamically.		
	When CGI is enabled, CGI commands can be used. The CGI is enabled by default.		
	Secure Shell (SSH) is a cryptographic network protocol for operating network		
SSH	services securely over an unsecured network.		
	When SSH is enabled, SSH provides cryptographic service for the data		
	transmission.		
\sim			

 \square

When HTTPS is enabled, the standalone will restart automatically.

3.9.5 Card No. Reverse

If the third party card reader needs to be connected to the terminal through the Wiegand output port, you need to enable the Card No. Reverse function; otherwise the communication between the terminal and the third party card reader might fail due to protocol discrepancy.

3.9.6 Auto Test

When you use the standalone for the first time or when the standalone malfunctioned, you can use auto test function to check whether the standalone can work normally. Do actions according to the prompts.



When you select **Auto Test**, the standalone will guide you to do all the auto tests.

3.9.7 Restore to Factory Settings



Data will be lost if you restore the access controller to the factory settings.

You can select whether to retain user information and logs.

• Tap **Default** to restore the standalone to the factory settings with all user information and device information deleted.

• Tap **Default (Save user&log)** to restore the standalone to the factory settings with user information and device information retained.





3.9.8 Reboot

Select **System > Reboot**, tap **Yes**, and the standalone will be rebooted.

3.10 USB



- Make sure that the USB is inserted before exporting user information and updating. During
 exporting or updating, do not pull out the USB or do other operations; otherwise the exporting
 or updating will fail.
- You need to import information from one standalone to the USB before using USB to import information to another standalone.
- USB can also be used to update the program.

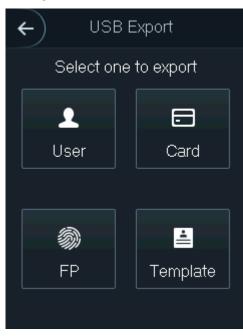
3.10.1 USB Export

You can export data from the standalone to the USB after inserting the USB. The exported template is in .xml format, and you can edit user information and import it to the standalone. The first three pieces of information are encrypted and cannot be edited.

 \square

Only the FAT32 file system is supported. <u>Step 1</u> Select **USB > USB Export**. The **USB Export** interface is displayed.

Figure 3-14 USB export



- <u>Step 2</u> Select the data type that you want to export. The prompt **Confirm to export** is displayed.
- <u>Step 3</u> Tap **OK**.

Data exported will be saved in the USB.

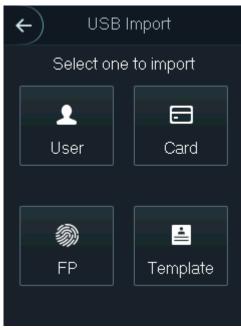
3.10.2 USB Import

Edit the user information in the exported template, and then import it to the standalone.

<u>Step 1</u> Select **USB > USB Import**.

The **USB Import** interface is displayed.

Figure 3-15 USB import



<u>Step 2</u> Select the data type that you want to import.

The prompt **Confirm to import** is displayed.

Step 3 Tap OK.

Data in the USB will be imported into the standalone.

3.10.3 USB Update

USB can be used to update the system.

- <u>Step 1</u> Rename the updating file name to "update.bin", and save the "update.bin" file in the root directory of the USB.
- <u>Step 2</u> Select **USB > USB Update**. The prompt **Confirm to Update** is displayed.

<u>Step 3</u> Tap **OK**.

The update starts, and the standalone reboots after the update is finished.

3.10.4 Screensaver

Insert a USB with pictures, and tap **ScreenSaver** to import pictures from the USB as the screen saver.

- The picture format should be .png, and .jpg is not supported.
- The pictures should be in the same scale with 240×320 .
- The picture name should be Screensaver1-5.

3.10.5 Exporting Record

You can search for and export all unlocking records.

3.11 System Information

You can search all unlocking records, and view data capacity and device version of the standalone on the **System Info** interface.

4 Web Operation

The standalone can be configured and operated on the web. Through the web you can set network parameters, video parameters, and standalone parameters; and you can also maintain and update the system.

4.1 Initialization

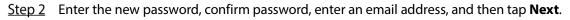
You need to set a password and an email address before logging in to the web for the first time.

Step 1 Open IE web browser, enter the IP address (the default address is 192.168.1.108) of the standalone in the address bar, and then press Enter key. The Initialization interface is displayed.

-	-	
ſ	ΙD	
11	1 11	
	4	

Use browser newer than IE 8, otherwise you might not log in to the web. Figure 4-1 Initialization

Boot Wizard	
0	
Device Initialization	
Username	admin
New Password	
	Low Medium High
Confirm Password	
	Password shall be at least 8 digits, and shall at least include two types, including number, letter and common character
📄 Bind Email	
	(It will be used to reset password. Please fill in or complete it timely)
	Next



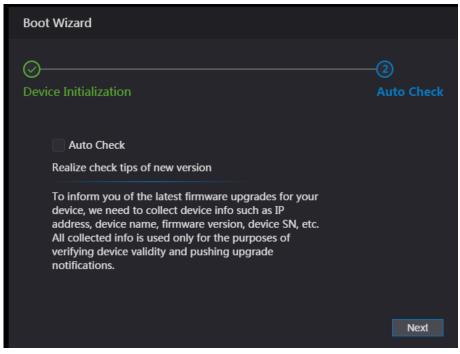


- For security, keep the password properly after initialization and change the password regularly.
- The password should consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character (excluding ' " ; : &). Set a password of high security level according to the password strength prompt.
- When you need to reset the administrator password by scanning the QR code, you need an email address to receive the security code.

Step 3 Click Next.

The auto check interface is displayed.

Figure 4-2 Auto Test



<u>Step 4</u> You can decide whether to select **Auto Check**.

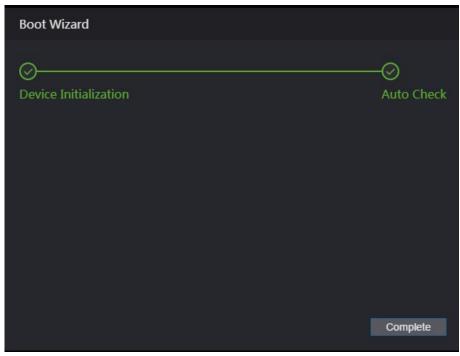


It is recommended that Auto Check be selected to get the latest program in time.

Step 5 Click Next.

The configuration is finished.

Figure 4-3 Finished configuration



<u>Step 6</u> Click **Complete**, and the initialization is completed. The web login interface is displayed.

4.2 Login

<u>Step 1</u> Open IE web browser, enter the IP address of the standalone in the address bar, and then press Enter. The login interface is displayed.

Figure 4-4 Login	
WEB SERVICE	
Username:	
Password:	
	Forget Password?
Login	

<u>Step 2</u> Enter the username and password.

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- The default administrator name is admin, and the password is the login password after initializing the standalone. Modify the password regularly and keep it properly for the sake of security.
- If you forget the administrator login password, you can click **Forget password?** to reset it. See "4.3 Resetting the Password."

Step 3 Click Login.

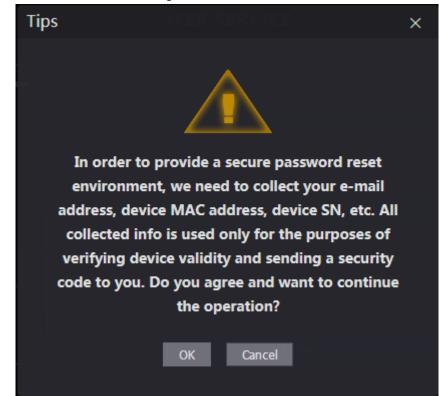
The web interface is logged in.

4.3 Resetting the Password

When resetting the password of the admin account, your email address will be needed.

<u>Step 1</u> Click **Forget password?** on the login interface.

The **Tips** interface is displayed.

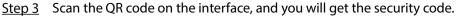


<u>Step 2</u> Read the tips, and click **OK**. The **Reset Password** interface is displayed. Figure 4-6 Reset password

Reset Password (1/2)

Please scan QR
Scan the QR code on the web interface
Scan the QR code on the web interf





- $\underline{\mathbb{N}}$
 - At most two security codes will be generated by scanning the same QR code. To get more security code, refresh the QR code.
- You need to send the content you get after you scanned the QR code to the designated email address, and then you will get the security code.

- Please use the security code within 24 hours after you receive it. Otherwise, it will become invalid.
- If wrong security codes are entered for consecutive five times, the administrator will be . frozen for five minutes.
- <u>Step 4</u> Enter the security code you have received.
- Step 5 Click Next.

The **Reset Password** interface is displayed.

<u>Step 6</u> Reset and confirm the new password.



The password should consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character (excluding ' ";: &).

<u>Step 7</u> Click **OK**, and the reset is completed.

4.4 Door Parameter

Set the door parameters including name, state, opening method, hole time, normally open time, normally close time, timeout, and enable the alarms that might be triggered during unlocking the door.

Figure 4-7 Door parameter

Step 1 Click Door Parameter.

Door Paramet	ter	
Name State Opening Method Hold Time (Sec.) Normally Open Time Normally Close Time	Door1 Normal Card/Fingerprint/Password 3 Disable Disable	Duress Alarm Door Sensor Intrusion Alarm (1-600) Anti-passback Alarm Illegal Card Exceeding Time
Timeout (Sec.)	60 OK Refresh	Default

<u>Step 2</u> Set the door parameters

Table 4-1 Door parameter description

Parameter	Description
Name	Enter a door name.
	There are three options: Normal, NC, and NO.
	• Normal: If Normal is selected, the door will be unlocked and locked
	depending on your settings.
State	• NC: If NC is selected, the door status is normally closed, which means
	the door will not be unlocked.
	• NO: If NO is selected, the door status is normally open, which means
	the door will never be closed.

Parameter	Description
Opening Method	Select a unlock method.
	The duration in which the door is unlocked. If the door has been unlocked
Hold Time (Sec.)	for a period that exceeds the duration, the door will be automatically
	locked., and the range is 1–600 seconds.
Normally Onen Time	Select the period that you set in Time Section . During the selected period,
Normally Open Time	the door is normally open. And it is disabled by default.
Normally Class Time	Select the period that you set in Time Section . During the selected period,
Normally Close Time	the door is normally closed. And it is disabled by default.
Time e out (Coo)	When the door opens longer than the configured time, the overtime alarm
Timeout (Sec.)	will be triggered.

<u>Step 3</u> Enable the alarms as needed.

Only when **Door Sensor** is enabled, can Intrusion Alarm and Overtime Alarm be triggered.

4.5 Alarm Linkage

4.5.1 Setting Alarm Linkage

Alarm input devices can be connected to the standalone, and you can modify the alarm linkage parameter as needed.

<u>Step 1</u> Select **Alarm Linkage > Alarm Linkage** on the navigation bar.

The Alarm Linkage interface is displayed.

Figure 4-6 Alarminikage						
Alarm Linkage						
Refresh						
Alarm Input	Name	Alarm Input Type	Alarm Output Channel	Modify		
1	Zone1	NO	1	1		
1						

Figure 4-8 Alarm linkage

<u>Step 2</u> Click **Mathematical Step 2** Click **Mathematical S**

Modify		×
Alarm I		
Alarm Input	1	
Name	Zone1	
Alarm Input Type	NO	
Fire Link Enable		
Alarm Output Enable		
Duration (Sec.)	30	(1~300)
Alarm Output Channel	v 1	
Access Link Enable		
Channel Type	NO	
		OK Cancel

Table 4-2 Alarm linkage parameter description

Parameter	Description
Alarm Input	You cannot modify the value. Keep it default.
Name	Enter a zone name.
	There are two options: NO and NC .
Alarm Input Type	If alarm input type of the alarm device you purchased is NO, then you
	should select NO ; otherwise you should select NC .
	If fire link is enabled, the standalone will output alarms when fire alarms
	are triggered. The alarm details will be displayed in the alarm log.
Fire Link Enable	
	Alarm output and access link are NO by default if fire link is enabled.
Alarm Output	The relay can output alarm information (will be sent to the management
Enable	platform) if the Alarm Output is enabled.
Duration (Sec.)	The alarm duration, and the range is 1–300 seconds.
Alarm Output	You can select an alarm output channel according to the alarming device
Channel	that you have installed. Each alarm device can be regarded as a channel.
Access Link Enable	After the Access Link is enabled, the standalone will be normally open or
ACCESS LITIK ETIADLE	normally closed when there are input alarm signals.
Channel Type	There are two options: NO and NC .

<u>Step 3</u> Click **OK**, and then the configuration is completed.

The configuration on the web will be synchronized with the configuration in the client if the standalone is added to a client.

4.5.2 Alarm Log

You can view the alarm type and time range on the Alarm Log interface.

- <u>Step 1</u> Select **Alarm Linkage > Alarm Log**.
 - The **Alarm Log** interface is displayed.

Figure 4-10 Alarm log

E	Alarm Log			
	Time Range Type		2018-12-04 00:00:00 Query	
	No.	Event Code	e	Time
			No data.	
				ia a 1/1 ⊳ ⊭ Go to ⊭

<u>Step 2</u> Select a time range and alarm type, and then click **Query**. The query results are displayed.

Figure 4-11 Query results

Alarm Log		
Time Range Type	② 2018-12-03 00:00:00 2018-12-04 00:00:00 All ▼ Query Find 1 Log	y Time 2018-12-03 00:00:00 2018-12-04 00:00:00
No.	Event Code	Time
1	ChassisIntruded Alarm	2018-12-03 12:03:54

4.6 Time Section Configuration

You can set periods, holiday periods, and holiday plan periods.

4.6.1 Time Section

After setting the period, users can only unlock the door in the periods that you have set. <u>Step 1</u> Select **Time Section** > **Time Section**.

Figure 4-12 Time section

1	Time Section					
ļ.	Add	Delete				
		No).	Period Name	Modify	Delete
				No data		

Step 2 Click Add.

Figure 4-13 Add period

Add				×
No.	0	Time Section Name		
Period Config	U			
Sunda	y Monday	Tuesday Wednesday	Thursday Friday	Saturday
🛃 Er	Time Section:	0 00:00:00	- () 23:59:59	
📃 Er	nable Time Section:	© 00:00:00	- () 00:00:00	
📃 Er	nable Time Section:	© 00:00:00	- () 00:00:00	
🔲 Er	nable Time Section:	© 00:00:00	- () 00:00:00	
A	pply to the whole wee	k	c	K Cancel

<u>Step 3</u> Set the period number and time section name. Select the **Enable** check box, and the time section as needed.

You can configure 128 periods (weeks) whose number range is 0–127, and set four periods on each day of a period (week). The default is 255, which indicates that the period is not configured; 0–127 is the period configured manually. You can edit the configured period in the **User List** on the standalone.

4.6.2 Holiday Group Configuration

Configure the start time and end time of a holiday group, and then users cannot unlock the door in the periods that you have set.

<u>Step 1</u> Select **Time Section > Holiday Group Config**.

Figure 4-14 Holiday group configuration

/	Holiday Group Config						
	Add	Delete	-				
		_					
			No.	Holiday Group Name	Modify	D	elete
				No data			

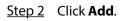
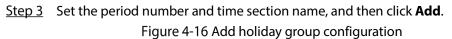


Figure 4-15 Add holiday group

Add						×
No. Holiday (Add	0 Group Config	Time Section I	Name			
No.	Holiday Group	Name	Starting Time	Ending Time	Modify	Delete
			No data			
					ОК	Cancel



Add				×
Time Section Name				
Time Section	2020-03-10	2020-03-11		
	(tenne)	(teethar)	ОК	Cancel

<u>Step 4</u> Set time section name and the time section as needed.

You can set group holidays, and then you can set plans for holiday groups. You can configure 128 groups whose number range is 0–127. You can add 16 holidays into a group.

4.6.3 Holiday Plan Configuration

You can add holiday groups into holiday plans, and users can only unlock the door in the period that you set.

<u>Step 1</u> Select **Time Section > Holiday Plan Config**.

Figure 4-17 Holiday plan configuration

Holiday I	Plan Config						
Add	Delete	I					
	N	o .	Holiday Plan Name		Holiday Group No.	Modify	Delete
				No data			



Figure 4-18 Add holiday plan

Add					×
No.	0	Time Section Nam	ne		
Holiday Group No.		*			
Holiday Period					
🛃 Enable	Time Section:	00:00:00	- () 23:59:59		
Enable	Time Section:	© 00:00:00	- (5) 00:00:00		
Enable	Time Section:	© 00:00:00	- () 00:00:00		
Enable	Time Section:	© 00:00:00	- (5) 00:00:00		
				ОК	Cancel

- <u>Step 3</u> Set the period number and time section name, select the holiday group number, select the **Enable** check box, and then set the time section.
- Step 4 Click OK.

4.7 Data Capacity

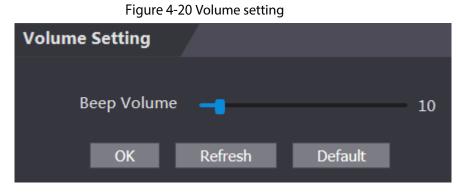
You can see how many users, cards, fingerprints, alarm logs, records, admin logs and admin quantity the standalone can hold on the **Data Capacity** interface.

Figure 4-19 Data capacity

Data Capaci	ty
User:	30000/30000
Card:	30000/30000
FP:	3000/3000
Alarm Log:	172/1000
Record:	150000/150000
Admin Log:	8/1000
Admin Quantity:	50/50

4.8 Volume Setting

You can set beep volume on the **Volume Setting** interface.



4.9 Network Setting

4.9.1 TCP/IP

You need to configure IP address and DNS server to make sure that the standalone can communicate with other devices.

Precondition

Make sure that the standalone is connected to the network correctly.

```
<u>Step 1</u> Select Network Setting > TCP/IP.
```

ТСР/ІР			
IP Version	IPv4 🔻		
MAC Address	N CONTRACTOR OF		
Mode	• Static • DHCP		
IP Address	10.5		
Subnet Mask	284 . 264		
Default Gateway			
Preferred DNS Server	8.8.8.8		
Alternate DNS Server	8.8.4.4		
	OK Refresh	Default	

Figure 4-21 TCP/IP

<u>Step 2</u> Configure parameters.

Table 4-3 TCP/IP

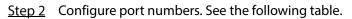
Parameter	Description				
IP Version	There is one option: IPv4.				
MAC	MAC address of the standalone is displayed.				
Mode	 Static Set IP address, subnet mask, and gateway address manually. DHCP After DHCP is enabled, IP address, subnet mask, and gateway address cannot be configured. If DHCP is effective, IP address, subnet mask, and gateway address will be displayed automatically; if DHCP is not effective, IP address, subnet mask, and gateway address will all be zero. 				
IP Address	Enter IP address, and then configure subnet mask and gateway address.				
Subnet Mask					
Gateway	IP address and gateway address must be in the same network segment.				
Preferred DNS Server	Set IP address of the preferred DNS server.				
Alternate DNS Server	Set IP address of the alternate DNS server.				

<u>Step 3</u> Click **OK** to complete the setting.

4.9.2 Port

Set the maximum clients that the standalone can be connected to and port numbers. <u>Step 1</u> Select **Network Setting > Port**.

Figu	ure 4-22 Port	
Port		
Max Connection	10	(1~999)
TCP Port	37777	(1025~65535)
HTTP Port	80	(1~65535)
HTTPS Port	443	(1~65535)
	OK Refresh	Default



Except max connection, you need to reboot the standalone to make the configuration effective after modifying values.

Table 4-4	Port descri	ption
Tuble I I	i ont acoch	puon

Parameter	Description			
	You can set the maximum clients that the standalone can be connected to.			
Max				
Connection				
	Platform clients like SmartPSS are not counted.			
TCP Port	The value is 37777 by default.			
HTTP Port	The value is 80 by default. If other value is used as port number, you need to			
ΠΠΡΡΟΠ	add this value behind the address when logging in through browsers.			
HTTPS Port	The value is 443 by default.			

<u>Step 3</u> Click **OK** to complete the setting.

4.9.3 P2P

Peer-to-peer computing or networking is a distributed application architecture that partitions tasks or workloads between peers. Users can download mobile application by scanning QR code, and then register an account so that more than one standalone can be managed on the mobile app. You do not need to apply dynamic domain name, do port mapping or do not need transit server.

Â

If you are to use P2P, you must connect the standalone to external network; otherwise the standalone cannot be used.

<u>Step 1</u> Select **Network Setting > P2P**.

Figure 4-23 P2P

P2P	
Enable	
State	Offline
S.N.	
	Scan the QR code on the web interface.
	OK Refresh

- <u>Step 2</u> Select **Enable** to enable P2P function.
- <u>Step 3</u> Click **OK** to complete the setting.



Scan the QR code on your web interface to get the serial number of the standalone.

4.10 Data Setting

You can set time zone, system time, date, DST, and NTP.



When you select Network Time Protocol (NTP), you need to configure the following parameters. You need to enable the NTP Check function first.

- Server: Enter the IP address of the time server, and time of the standalone will be synchronized with the time server.
- Port: Enter the port number of the time server.
- Update Cycle (min): NPT check interval. Tap the save icon to save.

Date Setting					
Time Zone	GMT+08:00 🔻				
System Time	iii 2020-03-03	17 : 21 : 35	Sync with PC		
DST	Enable O Close				
Date Setting	🔵 Date 🔷 Week				
Starting Time	January 🗸 🔻	1	▼ 00 : 00		
Ending Time	January 👻	2	▼ 00 : 00		
NTP Setting					
Server	clock.isc.org				
Port	123				
Update Cycle	10	Min.			
		Default			
	OK Refresh	Delault			

Figure 4-24 Date setting

4.11 Safety Management

4.11.1 IP Authority

Select a cyber security mode as needed.

Figure 4-25 IP authority IP Authority Type Network Access Enable Default Refresh Prohibit PING Anti Half Connection

4.11.2 System Service

There are four options: SSH, PWD Reset Enable, CGI, and HTTPS. For details, see "3.9.4 Privacy Setting."



The system service configuration done on the web page and the configuration on the **Privacy Setting** interface of the standalone will be synchronized.

 System Service

 SSH

 PWD Reset Enable

 CGI

 HTTPS

 Warning:Disabling HTTPS may be at risk

 Auth Method () Security Mode (Recommended) Compatible Mode

 Create Server Certificate

 OK
 Refresh

 Default

Figure 4-26 System service

4.11.3 User Management

You can add and delete users, modify users' passwords, and enter an email address for resetting the password when you forget your password.

4.11.3.1 Add Users

Click **Add** on the **User Mgmt.** interface to add users, and then enter username, password, confirmed password, and remark. Click **OK** to complete the user adding.

4.11.3.2 Modify User Information

You can modify user information by clicking **Z** on the **User Mgmt.** interface.

Figure 4-27 User management

User Mgmt.				
No.	Username	Remark	Modify	Delete
1	admin	admin 's account		
Add Refresh	l			

4.11.4 Maintenance

You can make the standalone restart automatically in idle time to improve the running speed of the standalone.

Figure 4-28 Maintenance

Maintenance				
Auto Reboot	Tuesday	▼ 02:00		
Reboot Dev OK	vice Refresh			

 \square

Select the auto reboot date and time. The default reboot time is at 2 o'clock in the morning on Tuesday. Click **Reboot Device**, the standalone will reboot immediately. Click **OK**, the standalone will reboot at 2 o'clock in the morning every Tuesday.

4.11.5 Configuration Management

When more than one standalones need the same configuration, you can configure parameters for them by importing or exporting configuration files.

Figure 4-29 Configuration management

Config Mgmt.	7			
Import configuration file		Browse	Import configuration	
Export configuration				

4.11.6 Upgrade

Upgrading to the latest system can perfect standalone functions and improve stability.



If wrong upgrade file has been used, the system will prompt that the upgrading fails and restart the device automatically.

<u>Step 1</u> Click **Upgrade** on the navigation bar.

Figure 4-30 Upgrade

File Upgrade		
Import Upgrade File	Browse Upgrade	
Support main program, MCU and reader upgrade		
Procedure downgrade is risky.Please operate with caution		
Online Upgrade		
Auto Check OK		
System Version: 1.000.0000000 S.3.R.20200303		Manual Check
This is the latest version already		

<u>Step 2</u> Select upgrading method according to the actual needs.

- File Upgrade
- Click **Browse**, and then upload upgrade file. The upgrade file should be a .bin file.
- 2) Click **Upgrade**. The upgrade starts.
- Online Upgrade
- Select the Auto Check check box, and click OK. The system checks for upgrade once a day automatically, and there will be system notice if any upgrade is available.



We need to collect the data such as device name, firmware version, and device serial number to precede auto-check. The collected information is only used for verifying the legality of cameras and upgrade notice.

2) If there is any upgrade available, click **Upgrade**, and then the system starts upgrading.

1		\frown	
I			
I			
Ľ	-		4

Click Manual Check to check for upgrade manually.

4.11.7 Version Information

You can view information including MAC address, serial number, MCU version, web version, security baseline version, system version and firmware version.

4.11.8 Online User

You can view username, IP address, and user login time on the Online User interface.

Online User			
No.	Username	IP Address	User Login Time
1	admin	8.00260	2020-03-03 18:57:13
Refresh			

Figure 4-31 Online user

4.12 System Log

You can view and backup the system log on the System Log interface.

Figure 4-32 System log

1	System Log	. <u>/</u>			
	Time Range Type	2018-12-03 00:00:00	2018-12-04 00:00:00 Query		
	No.	Log Time		Username	Log Type
			No data		
	Time: Username:				
	Type: Content:				
	Deploye				i≼ 1/1 ⊨ ⊨i Go to +
	Backup				

4.12.1 Query Logs

Select a time range, type, click **Query**, and logs meet the conditions will be displayed.

4.12.2 Backup Logs

Click **Backup** to back up the logs displayed.

4.13 Admin Log

Enter Admin ID on the **Admin Log** interface, click **Query**, and then you will see the administrator's operation records.

Figure 4-33 Admin log

1	Admin Log				
Adm	in ID	Query			
	No.	Name		Time	Admin ID
			No data		
					4 1/1 ▶ ▶ Go to ⇒

4.14 Exit

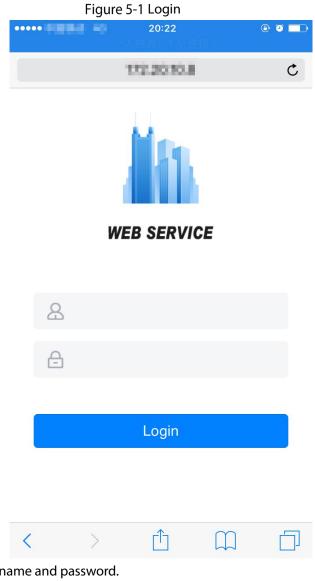
Click OK , and then you will log out the web interface.
Hover over 🖳 , and then you can see detailed information of the current user

5 Mobile Phone Operation

The standalone can be configured and operated on the mobile phone. Through the mobile phone you can set parameters including network parameters, video parameters, and standalone parameters; and you can also maintain and update the system.

Login

- <u>Step 1</u> Connect the device and mobile phone to the same network.
- <u>Step 2</u> Open the browser on the mobile phone, enter the device IP address (it is displayed on the Wi-Fi interface, and 192.168.1.108 by default) of the standalone in the address bar, and then press Enter.



<u>Step 3</u> Enter the username and password.



The default username of administrator is admin, and the password is the login password after initializing the standalone. Modify the administrator password regularly and keep it properly for security.

Step 4 Click Login.

6 Configuration on DSS Pro

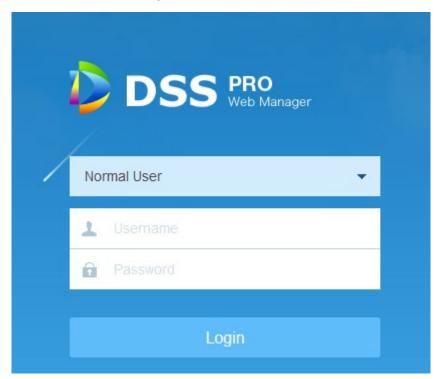
Before doing access control configurations, you need to add roles, users, and access control devices to DSS Pro; and you can set lock/unlock period and mode for certain users, devices, and door groups; and then you can give access permission to certain users or users in different door groups on DSS Pro Client. For detailed operation, see *DSS Pro User's Manual*.

6.1 Adding Devices

You need to add devise to the DSS Pro first so that you can do unlock management, period management, access permission configuration, and more on DSS Pro.

<u>Step 1</u> Enter DSS Pro IP into the browser address bar, and press Enter.

Figure 6-1 Login



- Step 2 Enter the username and password
- Step 3 Click Login.

Figure 6-2 Homepage

D 🚺	DSS PRO Home + Hi, system									
	۲			2		(3)				
	De	evice		User	Event	Storage				
		Add a device and configure video channel bonding for the device channel.		Add user, and authorize the user with system permission.	Add device or system events, and configure the corresponding link actions.	Configure the record plan of cameras.				
	Device			User Event		Storage				
	Overview			License		Help				
	Status:OnlineOfflineDevice:5223User:29		Offline	✓ Activated version L	User Manual					
			23	Step 1: Export the licens	e request file	E-Mail: dss_support@dahuatech.com				
			9	Step 2: Contact salespe	Version: V7.002.0000002.0.R.20190324.1158628					
	Service:	29	0	Step 3: Import the licens						
	HDD:	-	660G/3643G							

<u>Step 4</u> On the homepage, click **Device**.

Figure 6-3 Device

levice						
ind Resource		Init Status	IP Address ¢	Type ¢	Port	MAC Address
		 Initialized 	10.33.12.134	Unknown	37777	30:9C:23:3A:64:7E
		 Initialized 	10.33.12.74	Unknown	37777	18-66-DA-00-18-12
		 Initialized 	10.33.12.92	Unknown	37777	30:9C:23:C3:D3:0C
		 Initialized 	10.33.12.97	Unknown	37777	F4:8E:38:AD:9D:02
	🕂 Add	🛅 Delete 🔒	Mod 🛃 Imp	Org: root	•	Q Search
	All D	ecoder Access Control				
		evice ID IP/Domain +	Home Server ¢ Device Name	¢ Type ¢ C	org Status ¢	Offline Cause Operation
		172.26.1.71	Center Server Decoder	NVD r	oot • Offline	e *
		1000001 10.35.163.66	Center Server FR Access Stan	Face Access Co. F	YL Online	¢ / >

Step 5 Click Add.

Figure 6-4 Add all

Add All	×
1. Login Information.	1.Login Information 2.Device Information
Protocol:	Dahua 🔻
Manufacturer:	Dahua 🔻
Add Type:	IP Address •
Device Category:	Access Control 💌
IP Address:	*
Device Port:	* 37777
User:	★ admin
Password:	•••••
Org:	root 💌
Home Server:	Center Server 🔻
	Add Cancel

<u>Step 6</u> Select Protocol, Manufacturer, Add Type, and Device Category; and enter IP Address, Device Port, User, Password, and more.



- Select Access Control as Device Category.
- Different protocols mean you will set different parameters; the actual interface shall prevail.
- When IP Address is selected, you need to enter IP address of the device you are to add.
- When Auto Register is selected, you need to enter Registration ID of the device you are to add. Auto Register is only for adding encoder, and the Registration ID should be the same as the Registration ID configured on the encoder.
- When Domain Name is selected. You need to enter domain name of the device you are to add.

Step 7 Click Add.

Add All	×
2. Device Information.	1.Login Information 2.Device Information
Device Name:	*
Туре:	Access Controller
Device Model:	
Device SN:	
Role:	Administrator, Operator
Access Control Channel:	1
Alarm Input Channel:	1
Alarm Output Channel:	
POS Channel:	
	Back Continue to add OK

Figure 6-5 Device information

<u>Step 8</u> Enter Device Name, Type, Device SN, Role, Access Control Channel, Alarm Input Channel, Alarm Output Channel, and POS Channel.

 \square

The type is obtained automatically after Step 7.

You can see the device you added on the **Device** interface.

 \square

If you want to add more devices, click **Continue to add**.

6.2 Access Control Management

You can do door configuration (door status, NO Period, NC Period, Alarm Enable, Unlock Length, Unlock Method) on DSS Pro Client depending on your needs.

6.2.1 Door Configuration

<u>Step 1</u> Log in to DSS Pro Client.

Figure 6-6 Homepage

	Homepage Access Cont	rol 🛨					••••••
\bigcirc	Live View View live video. Supports multiple-w- indow preview, PTZ control, snapsh- ot, instant playback, tour and etc.	8	Record Playback Supports central or front-end device- srecord playback, fast and slow play- back, locking record and etc.		Emap Visual display of device installation a- rea, supports map preview, playback- , alarm and etc.	٦	Event Center Listing events by event level, you can- process alarm and search history al- arm.
)=(Video Wall Decoding live video and video recor- d to video wall, supports video tour.		Download Center Multiple methods to export record fi- lefrom central server and front-end storage device.				
	Personnel Management Add user and details, supports to iss- uce card, private password and other authorization.		Access Control Remote control of A&C device, supp- orts door group authorization and u- nlock rule setup.	××× ×××	Attendance Management Personned shirt arrangement, record the attendance information and gen- erate attendance reports.	0	Video Intercom VDP device call and management, s- upports to send message to VTH.
	Face Recognition Supports real-time face detection an- d comparison history face detection- and comparison searching and etc.		Flow Analysis Esoly know the passenger flow via p- eople counting and passenger distri- bution via heatmap.		Thermal Supports Cetting real-time heatmap point, line and pane temperature an- alysis and heatmap exporting.		ANPR Supports real-time license plate reco- gnition, vehicle passed record search- ing and etc.
	Traffic Supports whicle violation searching- vehicle average speed measurement and generating traffic flowreports.	<u></u>	Object Detection Human, motor vehicle, non-motor ve- hicle detection, extracting object at- tributes information.	••••	Entrance Access license plate snapshot. suppo- rtparking lot config and vehicle whit- e list management.		

Step 2 Click Access Control.

<u>Step 3</u> On the left side of the interface, right-click an access control channel in the device tree, and select **Door Configuration**.

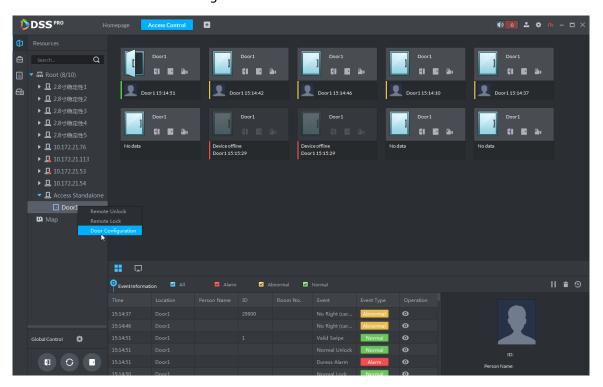


Figure 6-7 Access control

Figure 6-8 Door configuration

Door Config	×
Set reader direction:	In Reader 1 ≓ Out Reader 2
Door Status:	Normal 🔻
NO Period:	
NC Period:	
Alarm Enable:	-
	Intrusion Timeout 🗹 Duress Over Times
Door Sensor Enable:	
Super Password:	
Unlock Length:	3 s
Unlock timeout:	60 s
Unlock Method:	or 🗸 🕐
	🗹 Card 🗹 Fingerprint 🗹 Password
	Apply OK Cancel

Table 6-1 Door configuration description

Parameter	Description				
Set reader direction	Indicates the in/out reader based on the wiring of ACS.				
Door Status	Sets the access control status to Normal, Always Open, or Always Close.				
NO Period	If enabled, you can set a period during which the door is always open.				
NC Period	If enabled, you can set a period during which the door is always closed.				
Alarm Enable	 If the door is opened not as intended, the door sensor is enabled and triggers an intrusion alarm. Entry with the Duress Card, Duress Password, or Duress Fingerprint triggers a duress alarm. Unlock duration exceeding the unlock timeout triggers a timeout alarm. Swiping an illegal card for more than five times triggers a malicious alarm. 				
Door Sensor Enable	Enables the door sensor. The intrusion alarm and timeout alarm take effect only when door sensor is enabled.				
Super Password	Enter the administrator password.				

Parameter	Description				
Uplack Longth	Sets the duration of door unlocking. The door is automatically locked				
Unlock Length	when the duration is over.				
Unlock timeout	Unlock duration exceeding the unlock timeout triggers a timeout alarm.				
Linia de Matha d	You can use any one of the methods, card, fingerprint, and password, or				
Unlock Method	any of their combinations to unlock the door.				
Stop 1 Click OK					

Step 4 Click **OK**.

6.2.2 Creating Door Groups

_

You can group doors, and then you do not have to give access permission of certain doors to certain users one by one (when creating door rules in the following, you need to select which people have access permission of which door groups).

<u>Step 1</u>	Click 🗳	on the Personnel Management interface.
---------------	---------	---

\triangleright	DSS	PRO Perso	onnel Management Acce	ss Control 🛨		🐠 o 🕹 🗢 🧀 – 🗆 🗙
ෂ						
G	+ Ad		Door Group Q	Door Group Detail		
		113	ノショ			
			アム言	Time Template: All-Period Template		
			/ #* B	Door	Authorized Person 🧿	
				Door Name Q	ID/Name Q	
				Door1		
_						
Ľ,						
6						

Figure 6-9 Door group

Step 2 Click Add on the Door Group interface.

Figure 6-10 Add door group

Add Door Group	×
Basic Info: Door Group Name • Time Template All-Period Template	Remark Holiday Schedule No Holiday Schedule
Select Access Control Channel	Selected(0)
Device Name/Channel Name Q Root Q	
	OK Cancel

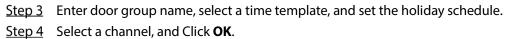


Figure 6-11 Door group

Þ	DSS	PRO	Access Control				
(j)	Doo	r Group					
Ö	🕂 Ad						
4				Operation	Door Group Detail		
ē		North Gate	Week Day Template	/ 🕯	Door Group Name: North Gate	Time Template:	Week Day Template
					A&C Channel List	User List	

6.2.3 Issuing Access Cards

You can issue access cards to people one by one or in batches.

<u>Step 1</u> On the **Personnel Management** interface, double-click any people you need to issue access card to, and then click **Authentication** tab.

Figure 6-12 Authentication

	Basic Info	Detail	Authentic	ation	Authoriz	ze				
	ersonnel Type:			sonnel Permis	sion: (i)					
Ľ										
R	esident Informatio	on								
Ro	oom No.:		Ho	useholder:						
_										
C	Card Add I Add card number to authorize personnel with permissions of devices beyond the second generation of access control device.									
	ABE41E2A		1							
		2020-03-04								
	Change Date: :	2020-03-04								
P	The platform issues personnel password to second-generation Password I I issues control devices, and issues card password to first- generation access control devices.									
Fi	ngerprint									
	📕 Add 📋 (Delete								
	Fingerpr	int Name		Ор	eration					
					18a / 🗎					
						Edit				

Step 2 Click Edit, and then click in Card section.

Figure 6-13 Editing

	Basic Info	Def	tail _	Authe	ntication	A	uthorize	2	
	rsonnel Type: General		•		Personnel P User	ermission	: (j)	•	
Re	esident Info	rmation							
Ro	om No.:				Householde	er:			
			•						
Ca	Card Add Add card number to authorize personnel with permissions of devices beyond the second generation of access control device.								
		11 7							
Pa	assword 🖌	' 💼 🤑	access con	trol devic	personnel pa es, and issue ontrol device	s card pas			
Fi	ngerprint							٥	
	🛉 Add	📋 Delete							
	E Fir	ngerprint N	ame			Operat	ion		
						<u>ƙ</u>	/ =		
	Extract					0	ĸ	Cancel	

<u>Step 3</u> Select the card reader of the access standalone as needed.

Figure 6-14 Reader manager

Basic In	fo Detail	Authentication	Authorize
xxx#xx#xx		• •>	
Card Add	devices beyond	er to authorize personnel with I the second generation of acces	permissions of ss control device.
ABE41 Issue Tir Change	me: 2020-03-04		
	Reader Manager		×
	Card Reader:	Device	•
Passworc	Device:	Reader 1	▼ generation first-
Fingerprin		C Access Standalon	e
	Fingerprint Name	Door1 Reader_1	n
		Reader 2	· 💼
Extract			OK Cancel

<u>Step 4</u> Click **Add** next to **Card**, and then put the card to the card reader to issue card. The card number is displayed.

Figure 6-15 Card number

Basic Info		Detail	Authentication	Authori	ze
Personnel Typ	e:		Personnel F	Permission: 🛈	
General		-	User		•
Resident Inf	ormatio	n			
Room No.:			Household	er:	
2000#200#2000		•			
Card Add	evi devi		authorize personnel second generation of		
ABE41E: Issue Time Change D:		Card Number:		ОК Са	ncel
Password	/ =	🕕 access con	m issues personnel p trol devices, and issu access control devic	assword to secon es card password	d-generation
Fingerprint					0
🕈 Add	i 0	elete			
F	ingerpri	nt Name		Operation	
				n 🗟 n 🖍 🖌 🗎	
Extract				ОК	Cancel

Step 5 Click OK.

The card is issued to the people you selected.



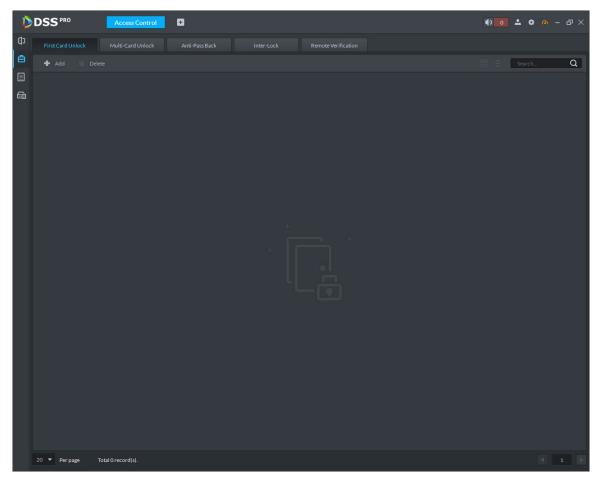
- You can also issue cards in batches by clicking Batch Issue Card.
- You can refer to steps of issuing cards to record fingerprints.

6.2.4 First Card Unlock

Only after the specified first-card user swipes the card every day can other users unlock the door with their cards. You can set up multiple first cards. Only after any one of the users swipes the first card can other users without first cards unlock the door with their cards.

Step 1 On the Access Control interface, click 🗎.

Figure 6-16 Advanced function



- Step 2Click the First Card Unlock tab.The First Card Unlock interface is displayed.
- Step 3 Click Add.

	1	igure 0-17 Thise ca		enceoning	aracion				
First Card U	Inlock Configration							>	×
	Door:		•	TimeTe	emplate:	All-Pe	riod Template	•	
	Status: No	ormal	•						
User List									
Root	.	Search	Q	Selected(0)			ŧ	
	ID	Name		ID	Name		Department	Operation	
	1								
		ic4							
	1010	dd xx							
	1011	dd xx							
	1012	dd xx							
	1013	dd xx							
	1014	dd xx							
	1015	dd xx							
	1016	dq vv							
							ОК	Cancel	

Figure 6-17 First card unlock configuration

<u>Step 4</u> Configure the **First Card Unlock** parameters and click **OK**. For details, see Table 6-2. The system displays the **First Card Unlock** information. See Figure 6-18. **First Card Unlock** is enabled by default.

_

Tabl	e 6-2 First card unlock parameters

	Parameter	Description
Door		You can select the target access control channel to configure the
Door		first card unlock.
Time Template		First Card Unlock is valid in the time period of the selected time
		template.
Status		After First Card Unlock is enabled, the door is in either the Normal
Status		mode or Always Open mode.
		You can select the user to hold the first card. Supports selecting a
User		number of users to hold first cards. Any one of them swiping the
		first card means first card unlock is done.

Figure 6-18 First card unlock information

Ď	DSS PRO	Homepage	Access Control	Ð		4 9 99 + 2	◊
Ø	First Card Unlock						
Ö						88 🗄 🛛 Sear	ch Q
G							
	Door 102-1 Ali-Period Template Normal yanfei pei xin shen						
		/ 1					
	20 V Per page To	tal 1 record(s).					3 1
<u>Step</u>	<u>5</u> Click						

The icon changing into **E** indicates First Card Unlock is enabled.

6.2.5 Multi-Card Unlock

In this mode, multiple groups of users have to swipe cards for an access control channel in an established sequence to unlock the door.

 \square

- One group can have up to 50 users.
- With Multi-Card Unlock enabled for an access control channel, it supports up to four groups of users being on site at the same time for verification. The total number of users can be 64 at most, with up to five valid users.
- Step 1 On the Access Control interface, click 🖻.

The **Advanced Function** interface is displayed.

- <u>Step 2</u> Click the **Multi-Card Unlock** tab.The **Multi-Card Unlock** interface is displayed.<u>Step 3</u> Add user group.
 - 1) Click **Person Group**.

		· · J · · · ·	5 1 5	
User	Group M	anager		×
-	Add	Delete		Search Q
		User Group Name	Quantity	Operation
		121	1	/ ×
		123		≠ ×

Figure 6-19 User group manager

2) Click **Add**.

			rigure o zo ose	. <u>9</u> . e e p						
Us	er Group	Manager						×		
U	User Group List > User Group Configration									
	User Grou	up Name: 🔸								
4	User List:							2014		
	Root	-	Search	Q	Selected(0			i		
		ID	Name		ID	Name	Department	Operation		
		1001	w w							
		1002	m m							
		1003	z z							
							ОК	Cancel		

Figure 6-20 User group configuration

3) Set up **User Group Name**. Select users from **User List** and click **OK**. You can select up to 64 users.

The system displays the user group information.

- 4) Click 📓 in the upper right corner of the **User Group Manager** interface.
- Step 4 Configure Multi-Card Unlock.
 - 1) Click **Add**.

Figure 6-21 Multi-card unlock configuration

м	ulti-caro	d Unlock Config							×
		Door:	~						
	User Gr	oup List							
		Search	Q	Selected(0)				ŧ	
		User Group Name	Quantity	Person Group Name	Quantity	Valid Quantity	Open Door Mode	Operation	
		121							
		123							
							ОК	Cance	

- 2) Select the door to configure Multi-Card Unlock.
- Select the user group. You can select up to four groups. The system displays the user group information.

Figure 6-22 User group information

Multi-ca	rd Unlock Config							×
	Door:	•						
User G	Group List							
Search Q			Selected(2)					i
	User Group Name	Quantity	Person Group Name	Quantity	Valid Quantity	Open Door Mode	Opera	tion
	121		121			Card	+ +	×
	123	2	123	2	2	Card	+ +	×
						ОК	C:	ancel

4) Enter the **Valid Quantity** for each group to be on site and the **Open Door Mode**. Click

or 🖳 to adjust the user sequence for each group to unlock the door.

The valid quantity refers to the number of users in each group that must be on site to swipe their cards.

5) Click OK.

The system displays the **Multi-Card Unlock** information.

Ď	DSS PRO	Access Control	Personnel Management	Đ				4 9 99+	2 0 00 -	- 🗆 ×
۵		Multi-Card Unlock								
Ö		ete 🔹 Person Group						88 ≔	Search	Q
Ē	Door1									
	Group1 Group2									
		• / =								
l										
_= _2	20 🔻 Per page	Total 1 record(s).								1
<u>Step</u>	<u>5</u> Click	0								
		on changir	ng into 回	indicat	es Multi-C	ard Unlock	is enabled.			

6.2.6 Anti-passback

The Anti-passback feature requires a person to exit from the door that he or she came in from. For the same person, an entry record must pair with an exit record. If someone has entered by tailing someone else, which means there is no entry record, this person cannot unlock the door for exit.

Step 1 On the Access Control interface, click 🖻.

The Advanced Function interface is displayed.

- <u>Step 2</u> Click the **Anti-passback** tab. The **Anti-passback** interface is displayed.
- Step 3 Click Add.

Anti-pass Back Config Anti-pass Back Name: Device: Time Template: All-Period Template Reset Time(min): Remark: Anti-pass Back Door Group Add Q 🔲 🧕 Access Standalone Group 1 🕨 🗖 🖸 Door1 Reader 5 👕 î Reader 6 Ť Reader 2 ÷ t Ê Ê Reader 8 Ê

Figure 6-24 Anti-passback configuration

<u>Step 4</u> Configure the anti-passback parameters and click **OK**. For details, see Table 6-3. The system displays the user selection information. See Figure 6-25.

Table 6-3 User selection information description

Parameter	Description			
Device	You can select the device to configure the anti-passback ru	les.		
Anti-passback name	You can customize the name of an anti-passback rule.			
Reset Time(min)	The access card becomes invalid if an anti-passback rule is violated. The reset time is the invalidity duration.	When the selected		
Time Template	You can select the time periods to implement the anti-passback rules.	device is a multi-door		
Remark	Description information.	controller, you must		
Group X	The group sequence here is the sequence for swiping cards. You can add up to 16 readers for each group. Each group can swipe cards on any of the readers. X is a number.	set up these parameters.		

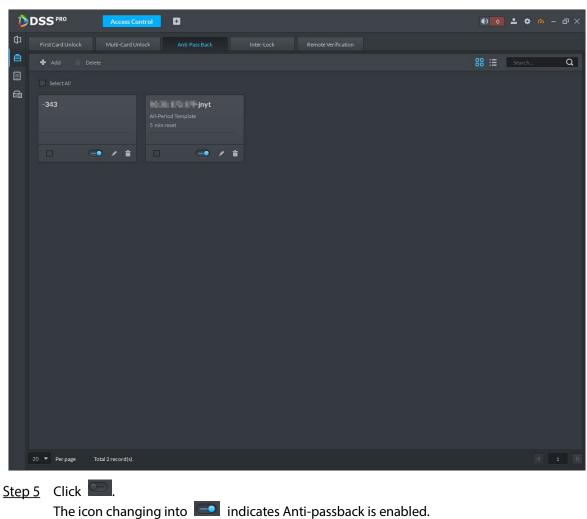


Figure 6-25 Anti-passback information

6.2.7 Remote Verification

For devices with remote verification, when users unlock the doors with card, fingerprint, or password in the specified time period, it must be confirmed on the platform client before the access controller can be opened.

<u>Step 1</u> On the **Access Control** interface, click \square .

The Advanced Function interface is displayed.

<u>Step 2</u> Click the **Remote Verification** tab.

The **Remote Verification** interface is displayed.

Step 3 Click Add.

Figure 6-26 Add remote verification

Add remote verification		×
Time Template:	All-Period Template	•
Search		Q
▼ □ 🖬 Root		
	ок	Cancel

Step 4Select **Time Template** and access control channel, and click **OK**.The system displays the remote verification information.

D	DSS ^{PRO} Homepage	Access Control	10 o 🕹 🗢 🔿	- 🗆 ×
 (j)				
ē.			88 🗄 Search	Q
6	10.172.21.53-Door1 All-Period Template	Access Standalone-Door 1 All-Period Template		
	20 Per page Total 2 record(s).			
	20 Per page Total 2 record(s).		×	1 2
<u>Step</u>	<u>5</u> Click 🛄.			

Figure 6-27 Remote verification information

The icon changing into **s** indicates **Remote Verification** is enabled.

6.2.8 Viewing Access Control Records

You can view access control records. There are two types of records:

• Online records

The access control records stored on the platform.

Offline records

The access control records stored in the device when it had not been added to the platform or were disconnected from the platform. After the device is added to the platform or reconnects to the platform, the platform will read the records generated when the device was offline.



Configure the alarm in Event manually so that the external alarm can be uploaded to the platform.

6.2.8.1 Online Records

Go to the **Access Control** module from the **Homepage** on the platform client, and click **I** to go to the access control records search interface. See Figure 6-28. Click **Export** in the upper-right corner of the interface and save the exported log to a local disk.

	cess Control +				۰ (ا	2 \$ 6	— Б×
Search Q					Ø		ds 🤷 Export
🖻 🔻 🗹 🖬 Root							Operation
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							o
▶ 🗹 📅 🗍							0
							0
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Image: Second							0
							0
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							0
							0
							0
							o
Event Type							0
All							0
							o
Time 11/1900:00-11/1923:59							o
							0
Card No.							
ID							
Person Name							
Department							
root 🔻							
Search	20 🔻 Per page						
			~				

Figure 6-28 Log search

6.2.8.2 Offline Records

You can extract unlock records and alarm records separately.

Step 1 On Access Control interface, click

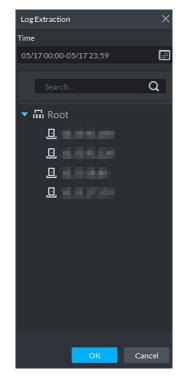
The Access Control Records interface is displayed.

<u>Step 2</u> Click **P** Acquire Records at the upper-right corner.

The **Password Verification** interface is displayed.

<u>Step 3</u> Enter the login password on the **Password Verification** interface. The **Log Extract interface** is displayed.

Figure 6-29 Extract logs during device offline



£ì

<u>Step 4</u> Click and set period.

- Step 5 Click to display devices, and then select a channel.
- <u>Step 6</u> Click **OK**. The records are displayed.

6.2.9 Viewing Device Logs

View logs of access control devices, such as login and logout logs.

Step 1 On the Access Control interface, click

P		cess Control +		● ○ ▲ ○
()	Search Q			🏦 Export
₿	▼ 🖬 Video			Event Content
	▼ ☆ (The second			Address de:LoginFailure,Index:1,Type:DVRIP,User
6	L 123			Address pe:LogIn,UserName:admin
laine.	A DESCRIPTION			Address de:LoginFailure,Index:1,Type:DVRIP,User
6				Address pe:LogIn,UserName:admin
				Address Web3.0
				Address
				Address Web3.0
				Address Web3.0
				Address
				Address Web3.0
				Address
				Address e:Web3.0
				Addres:
				Address
				Addres: e:DVRIP
				Addres: a:DMConfig
				Address
				Addres: e:DVRIP
				Address
				Address e:DVRIP
	Time			
	2019-11-19			
	Search	20 v Per page Total 33 rec	:ord(s).	

Figure 6-30 Device log

Step 2Select a device and time, and then click Search.The search results are displayed.

Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

Mandatory actions to be taken for basic device network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use overlapped characters, such as 111, aaa, etc.;

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024~65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing the risk of ARP spoofing.

8. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

10. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. Network Log

Due to the limited storage capacity of the device, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

13. Construct a Safe Network Environment

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.