

C83 SIP Door phone User Manual

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1 Overview

1.1 Introduction

C83 is a one-key SIP access control phone with integrated HD camera and advanced audio system with echo cancellation. It supports H.264 video compression format and provides excellent video quality at 1080P video resolution. Used with the D72 indoor monitor, you can talk to visitors at any time and view the video through the access control camera.

C83 provides users with keyless control and convenient, supports a variety of ways to open the door without keys. As long as it is an electronic door lock, it can be opened remotely. It can ideally control communication and security through the network, and can be well applied in areas such as commerce, institutions and residences.

1.2 Features

Video function

- 2 million pixel color CMOS camera
- Maximum image transmission rate: 1080P -25fps
- Video codec: H.264
- Resolution: up to 1920 x 1080
- Viewing angle: 80 ° (height), 60 ° (width)
- Minimum brightness: 0.1lux

❖ Access control

- One SIP line, two SIP servers
- SIP Door phone function :
- Full two-way
- Auto answer by default
- Remote control via URL / URI
- Speed dial

❖ Management Function

- Automatic configuration: FTP / TFTP / HTTP / HTTPS / PNP
- Configuration via HTTP / HTTPS web
- SNMP/TR069
- Time synchronization service / Daylight saving time
- Network upgrade firmware
- System log
- Configuration backup / restore

❖ Audio Function

- HD audio
- Two-way audio streaming
- Wideband codec: G.722
- Narrowband codec :PCMA, PCMU, G.729, G723_53, G723_63, G726_32
- Echo cancellation of G.168
- Voice Activity Detection (VAD)
- Comfort noise generator (CNG)
- Built-in micro speaker
- Acoustic echo cancellation audio output

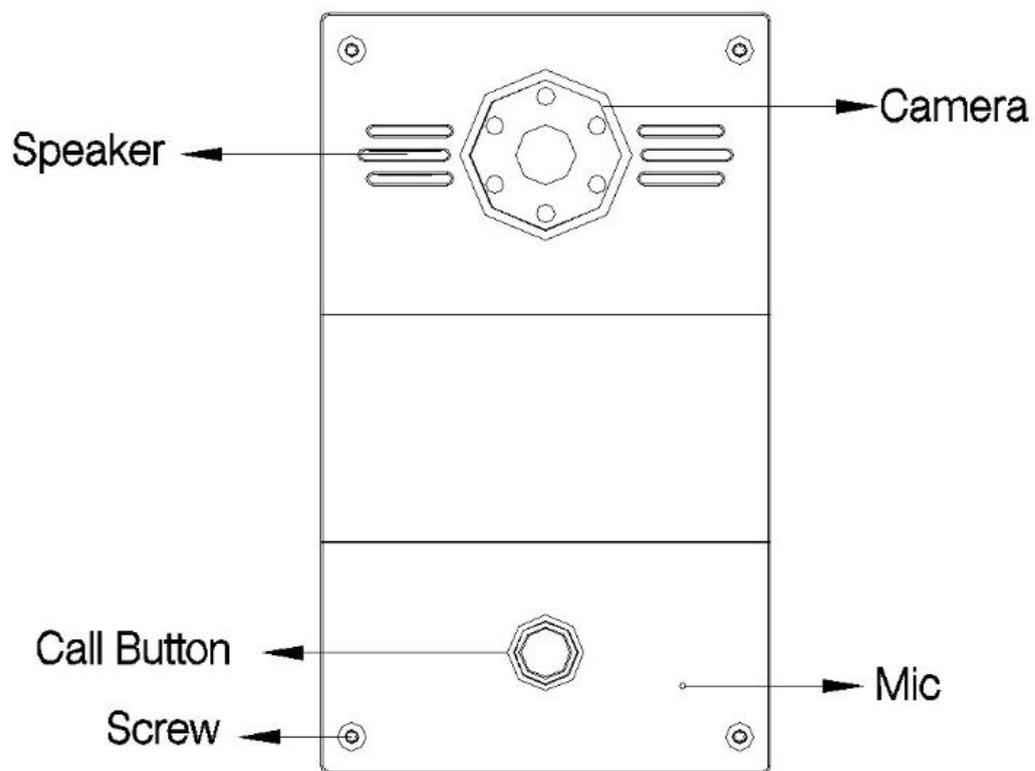
❖ Protocol and network

- SIP v1 (RFC2543), v2 (RFC3261)
- SIP based on TLS, SRTP
- RTSP
- TCP/IPv4/UDP
- RTP/RTCP, RFC2198, 1889
- HTTP/HTTPS/FTP/TFTP
- ARP/RARP/ICMP/NTP
- DNS SRV/ A Query/NATPR Query

-
- Primary and secondary DNS
 - Private network penetration protocol, session timer
 - 802.1p/q, DSCP
 - DHCP/Static/PPPoE
 - DTMF MODE: In-Band, RFC2833 and SIP INFO

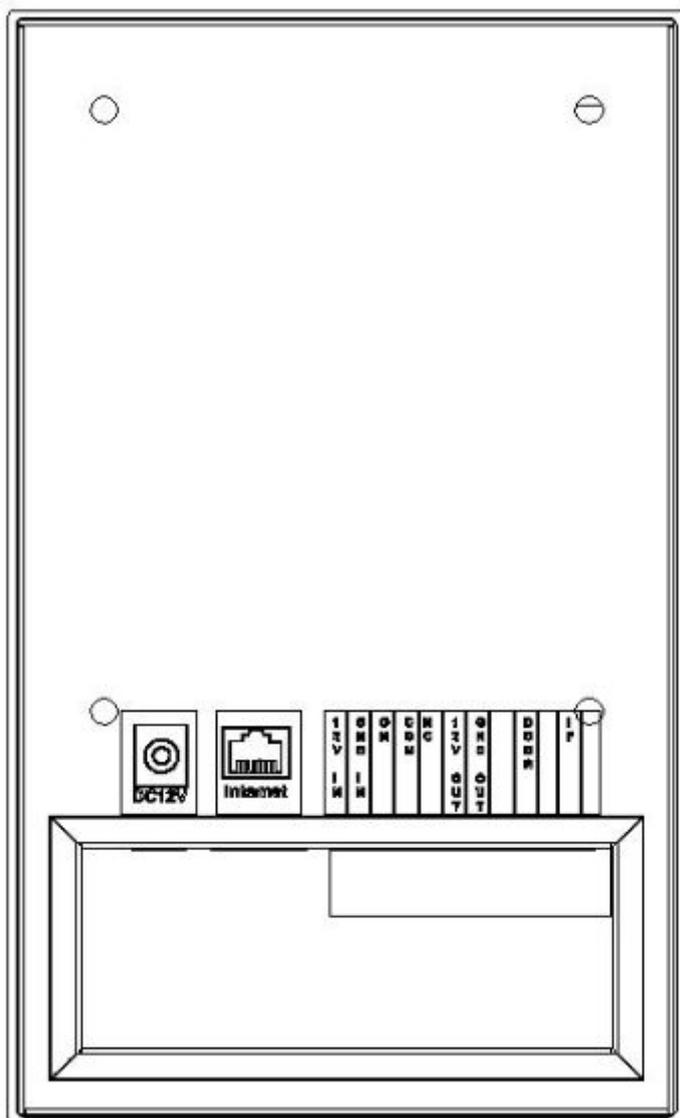
1.3 Hardware Introduction

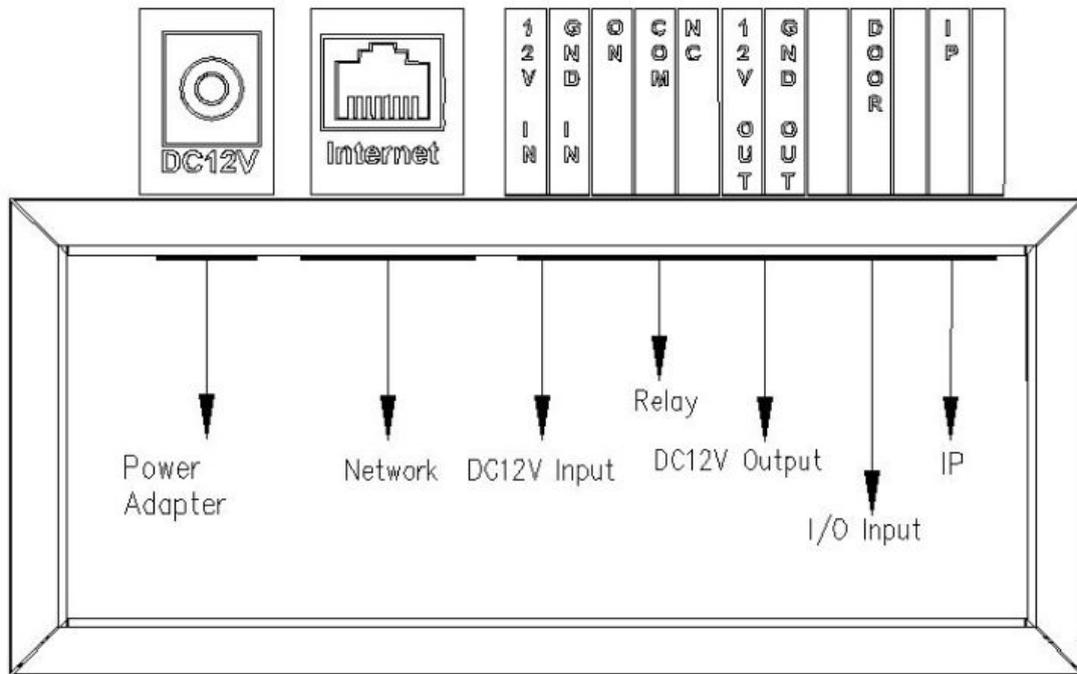
❖ Front view and description



camera : 1080p HD camera

❖ Rear view and panel description





Appellation	Description
(DC 12V/1A)	DC 12V/1A power adapter connector
Internet	LAN port for network connection, 10 / 100M, RJ45 interface
VCC+(IN) VCC- (IN)	The interface connected to the engineering terminal block needs to provide 12V / 1A power supply
N.O1--N.C1	Connect a certain logic control circuit, and then control the action or operation of the controlled object through the output device
Door	Generally used for input of opening and closing doors

Chapter 2 Installation

2.1 Check the contents of the package

Please refer to the packing list below to check the integrity of the packing.

Contents	Amount
C83 SIP Door Phone	1
Power Adapter	1
Ethernet cable	1

2.2 Installation steps

Step 1 – Power on

Connect the supplied power adapter to the power port, and then plug the adapter into an available power outlet.

Step 2 – Connect Network

Connect one end of the Ethernet cable to the Internet port on the back of the communication C83, and the other end to the wall network jack.

Step 3 – Connect to computer

Connect one end of the Ethernet cable to the port on the back of the communication C83, and the other end to the Ethernet port on the computer.

Step 4 – Configure the device

Start a web browser on the computer and enter the phone's IP address into the address bar. If the address is correct, a login screen will appear, enter the user name and password to log in to the web console to log in to the phone webpage.

Notice: Each phone has one certain IP address; You can short-circuit the external electrical interface pin 7 and pin 11 to hear the IP address prompted by the device in voice mode.

Chapter 3 Feature

3.1 Dial

You can use the following three methods to make calls :

1. One-touch dial :

Click "Door Phone-Door Phone" in the left navigation bar to enter the phone phone configuration page;

In the Call Button configuration item, you can set 4 commonly used indoor unit numbers, of which Call Button Day 1 ~ 3 is the outgoing number during the day, Call Button Night is the outgoing number at night, the number is a one-touch dial button

The screenshot shows a web interface for configuring a door phone. On the left is a navigation menu with items: Status, Account, Network, Door Phone (expanded), Time/Lang, Voice/Video, Tones, Upgrade, and Security. The main content area is titled "Door Phone" and contains three sections:

- Call Button**: A table with two columns: "Call Button" and "Call Button Value".

Call Button	Call Button Value
Call Button Day 1	1001
Call Button Day 2	1002
Call Button Day 3	1003
Call Button Night	1004
Round Robin Time Out	60 (5~60s)
- SystemTime**: Shows the current date and time as 2019/05/24 07:08:19.
- Day Night Setting**: A table for configuring start times.

Setting	Hour	Min
Day Start	9	0
Night Start	19	0

The dialed number (C83 phone can directly press the "Dial" button to dial the number);

Round Robin Time Out is the time-out period of the carousel. If a number times out and does not answer, the access control will automatically dial the next number (Call Button Night number at night);

In Day Night Setting, you can configure the day and night start time to determine the number dialed at the current time;

Click on Submit Button.

2. Speed Dial :

Click "Door Phone-Door Phone" in the left navigation bar to enter the phone

configuration page;

(note: Only C88 has this function)

Speed Dial Code

Speed Dial Code	Destination
0	7201
1	
2	
3	
4	
5	
6	
7	
8	
9	
Security Staff	
Ext Key	

d) commonly
the numeric

3.3 Enter the password to open the door(Note:Only C88 has this function)

1. Click "Door Phone-Door Phone" in the left navigation bar to enter the phone configuration page ;
2. You can configure the door unlock setting at Door. You can select a number at Door Digit as the DTMF button to open the door of the indoor unit (when talking to the indoor phone, the indoor phone can open the door with this number key) ;
3. The door opening time can be set at the Door Open Time, and the door lock will open the door within this time ;
4. You can set a door opening password at the Open Password, enter this password

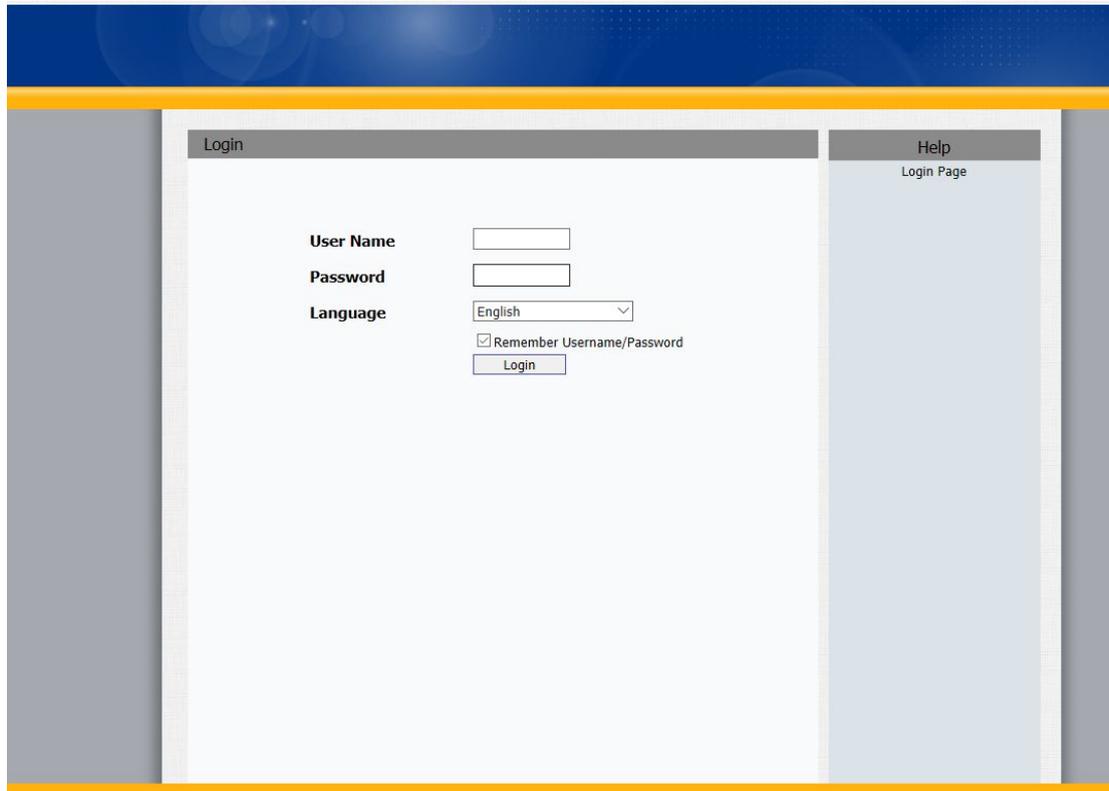
Door

Door Digit	1	▼
Door Open Time	2	▼
Open Password	●●●●●●	(4~6)

default

Chapter 4 Web configuration

The web user interface is used for administrators to check or change the phone configuration.



The screenshot shows a web browser window displaying a login page. The page has a blue header and a yellow border. The main content area is white and contains a login form. The form has fields for 'User Name', 'Password', and 'Language' (set to 'English'). There is a checkbox for 'Remember Username/Password' and a 'Login' button. A 'Help' link is visible in the top right corner.

4.1 Status->Basic

1. First, you need to open a browser (such as IE browser).
2. Enter the IP address of the phone in the address bar of the browser, and then press Enter.
3. If successfully connected to the IP phone, it will enter the login page. On this page, enter the correct username and password. The default username and password are as follows:

User Name : admin

Password : admin
4. After successful login, it will automatically locate to Status-> Basic page, as shown below :

Section	Description
Product Information	Display the basic information of the settings, such as Model, MAC Address (physical address of the IP device), Firmware Version, and Hardware Version.
Network Information	Display the set network status, Ex:LAN Port Type (DHCP/Static IP/PPPoE) 、 LAN Link Status、 LAN IP Address、 LAN Subnet Mask、 LAN Gateway、 LAN DNS1、 LAN DNS2、 Primary NTP and Secondary NTP (NTP server is used to automatically synchronize the time from the Internet) .
Account Information	Display device account information and registration status (account user name, registration server address and registration result).

4.2 Account->Basic

Section	Description
SIP Account	<p>Display and configure basic account information :</p> <ul style="list-style-type: none"> ❖ Status : Display account registration results ; ❖ Display Label : The label displayed on the screen ; ❖ Display Name : Send to another caller for display ; ❖ Register Name : Assigned by SIP server provider, For authentication ; ❖ User Name : Extension name assigned by SIP server ;

	<ul style="list-style-type: none"> ❖ Password : For authentication ;
SIP Server 1	<p>Display and configure master server information :</p> <ul style="list-style-type: none"> ❖ Server IP: SIP server address can be a domain name or an IP address; ❖ Registration Period : The IP phone will automatically re-register within the registration period;
SIP Server 2	<p>Display and configure secondary server information :</p> <p>If registration fails on the primary SIP server, the IP phone will go to the secondary SIP server for registration. Notice : The secondary SIP server is used for backup, if the user environment does not have a backup SIP server, it can be left blank;</p>
Outbound Proxy Server	<p>Display and configure proxy server settings. The proxy server is used to receive all activated request messages and route them to the designated SIP server.</p> <p>Notice : If configured, If a proxy server is configured, all SIP request messages from IP phones will be sent to the proxy server forcibly.</p>
Transport Type	<p>Display and configure the transmission type of SIP messages :</p> <ul style="list-style-type: none"> ❖ UDP : UDP is an unreliable but very effective transport layer protocol; ❖ TCP : Reliable but less efficient transport layer protocol ; ❖ TLS : Safe and reliable transport layer protocol

	<p>;</p> <ul style="list-style-type: none"> ❖ DNS-SRV : Is a type of DNS record used to specify the server address ;
NAT	<p>Display and configure NAT (Network Address Translator)</p> <p>:</p> <ul style="list-style-type: none"> ❖ STUN : Simple traversal of UDP on NATS is the solution to all NAT problems. <p>Notice : By default, NAT is disabled.</p>

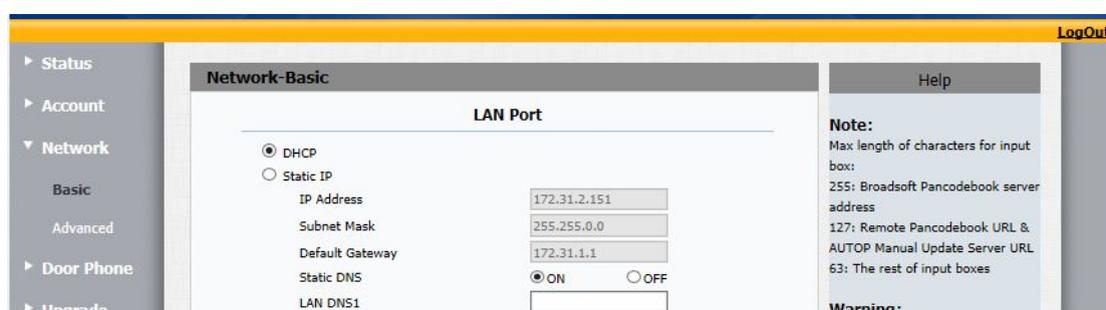
4.3 Account-Advanced

Section	Description
SIP Account	Display the current account settings or select the account to display.
Audio Codecs	Display and configure a list of available / unavailable codecs. A codec refers to a codec used to convert analog signals into digital signals or digital signals into analog signals. Familiar codecs are PCMU (G711U), PCMA (G711A), G722 (broadband codec), G729, G723_53, G723_63, G726_16, G726_24, G726_32, G726_40.
Video Codecs	<p>The phone can set whether each video encoding method needs to be available, and set its priority, for different encoding methods can set its resolution, bit rate and payload ;</p> <p>Currently, the phone only supports H264 encoding mode;</p> <p>Video Codecs : Set whether each video encoding</p>

	<p>method needs to be available and set its priority;</p> <ol style="list-style-type: none"> 1、 Disabled Codecs : Default is empty ; 2、 Enabled Codecs : H264 ; <p>Video Codec : For different encoding methods, the resolution, bit rate and payload can be set ;</p> <p style="padding-left: 40px;">Codecs Name : Used to display the name of the encoding method, currently displayed H264 ;</p> <p style="padding-left: 40px;">Codecs Payload : Codec payload, selection, default 104, optional integer between [96-127] ;</p>
DTMF	<ol style="list-style-type: none"> 1、 Type : Options, default RFC2833, optional Inband, RFC2833, Info, Info + Inband, Info + RFC2833 ; 2、 How To Notify DTMF : Option, when Type is Inband and RFC2833, this item is Disabled by default and is not editable; when Type is Info, Info + Inband, Info + RFC2833, it is Disabled by default, and you can choose Disabled, DTMF, DTMF-relay, Telephone- event ; 3、 DTMF Payload : Cannot be empty, default is 101, [1,63] characters, only integers within [96,127] can be filled ;
Call	<p>Function Overview: Set the configuration items related to the call, set the phone SIP port, automatic answering, phone ringtone, anonymous call, etc.</p> <ul style="list-style-type: none"> ❖ 1、 Max Local SIP Port : cannot be empty, Account 1-Account 6 respectively default 5062-5067, [1,63]characters, Only integers within [1024,65535] can be filled ;

	<ul style="list-style-type: none"> ❖ 2、Min Local SIP Port : cannot be empty, Account 1-Account 6respectively default 5062-5067, [1,63]characters, Only integers within [1024,65535] can be filled ; ❖ 3、Invite with user=phone : options, default Disabled, Optional Enabled and Disabled ; ❖ 4、PTime : options, default 20, can choose 10、 20、 30、 40、 50、 60 ; ❖ 5、 Prevent SIP Hacking : options, default Disabled, can choose Enabled and Disabled ;
NAT	<p>IP phones can send valid data packets that keep the communication port open to the NAT server ;</p> <ul style="list-style-type: none"> ❖ UDP Keep Alive Messages : options, default Enabled, can choose Enabled and Disabled ; ❖ UDP Alive Msg Interval : When UDP Keep Alive Messages is Enabled, it cannot be empty, the default is 30, [1,63] characters, only integers within [5,60] can be filled; when UDP Keep Alive Messages is Disabled, this item is not available Edit status ❖ RPort : optiond, default Disabled, can choose Enabled and Disabled ;

4.4 Network-Basic



Section	Description
LAN Port	<p data-bbox="571 271 1086 304">Display and configure LAN port settings :</p> <ul data-bbox="632 338 1342 864" style="list-style-type: none"><li data-bbox="632 338 1342 517">❖ DHCP: If checked, the IP phone will automatically obtain the IP address, subnet mask, default gateway and DNS server address from the DHCP server ;<li data-bbox="632 551 1342 730">❖ Static IP: If selected, you must manually set the IP Address, Subnet Mask, Default Gateway, and DNS Server ;<li data-bbox="632 763 1342 864">❖ PPPoE: Use PPPoE User Name / Password to connect to PPPoE server.

4.5 Network-Advanced

LogOut

- ▶ Status
- ▶ Account
- ▼ Network
 - Basic
 - Advanced
 - ▶ Door Phone
 - ▶ PhoneBook
 - ▶ Upgrade
 - ▶ Security
 - ▶ Log

Network-Advanced

LLDP

LLDP Active

Packet Interval (10~3600s)

Local RTP

Max RTP Port (1024~65535)

Starting RTP Port (1024~65535)

SNMP

Active

Port (1024~65535)

Trusted IP

VLAN

LAN Port Active

VID (1~4094)

Priority

PC Port Active

VID (1~4094)

Priority

QoS

SIP QoS (0~63)

Voice QoS (0~63)

TR069

Active

Version

ACS URL

User Name

Password

Periodic Inform Active

Periodic Interval (3~24×3600s)

CPE URL

User Name

Password

802.1x

802.1x Mode

Identity

MDS Password

VPN

Active

Upload(<50K) not selected

Help

Note:
Max length of characters for input box:
255: Broadsoft Pancodebook server address
127: Remote Pancodebook URL & AUTOP Manual Update Server URL
63: The rest of input boxes

Warning:

Field Description:

Submit Shortcut

Sections

Description

<p>LLDP</p>	<p>To display and configure LLDP settings.</p> <ul style="list-style-type: none"> ◆ LLDP Active: To enable or disable LLDP feature., ◆ Packet interval: To configure the interval for LLDP admin message. <p>Note: LLDP stands for Link Layer Discovery Protocol, it's used to exchange device information between any two directly-connected devices. LLDP is often used to configure Voice VLAN automatically for IP phone.</p>
<p>Local RTP</p>	<p>To display and configure Local RTP settings.</p> <ul style="list-style-type: none"> ◆ Max RTP Port: Determine the maximum port that RTP stream can use. ◆ Min RTP Port: Determine the minimum port that RTP stream can use.
<p>SNMP</p>	<p>To display and configure SNMP settings.</p> <ul style="list-style-type: none"> ◆ Active: To enable or disable SNMP feature. ◆ Port: To configure SNMP server's port. ◆ Trusted IP: To configure allowed SNMP server address, it could be an IP address or any valid URL domain name. <p>Note: SNMP(Simple Network Management Protocols) is Internet-standard protocol for managing devices on IP networks.</p>
<p>VLAN</p>	<p>To display and configure VLAN settings.</p> <ul style="list-style-type: none"> ◆ LAN Port/PC Port: You can configure VLAN setting for both ports respectively. ◆ Active: To enable or disable VLAN feature for designated port. ◆ Vid: To configure VLAN id for designated port. ◆ Priority: To select VLAN priority for designated port. <p>Note: Please consult your administrator for specific VLAN settings in your networking environment.</p>
<p>QoS</p>	<p>To display and configure QoS settings.</p> <ul style="list-style-type: none"> ◆ SIP QoS: To configure QoS value for all SIP message. ◆ Voice QoS: To configure QoS value for all audio stream(RTP streams).

TR069	To display and configure TR069 settings. <ul style="list-style-type: none">◆ Active: To enable or disable TR069 feature.◆ Version: To select supported TR069 version (version 1.0 or 1.1).◆ ACS/CPE: ACS is short for Auto configuration servers as server side, CPE is short for Customer-premise equipment as client side devices.◆ URL: To configure URL address for ACS or CPE.◆ User name: To configure username for ACS or CPE.◆ Password: To configure Password for ACS or CPE.◆ Periodic Inform: To enable periodically inform.◆ Periodic Interval: To configure interval for periodic inform. Note: TR-069(Technical Report 069) is a technical specification entitled CPE WAN Management Protocol (CWMP).It defines an application layer protocol for remote management of end-user devices.
802.1x	To display and configure 802.1x settings. <ul style="list-style-type: none">◆ 802.1x Mode: To enable or disable 802.1x.◆ Identity: To input identity if 802.1x is enabled.◆ MD5 password: To input MD5 password if 802.1 is enabled.
VPN	To display and configure VPN settings. <ul style="list-style-type: none">◆ Active: To enable or disable VPN feature.◆ Upload: To upload VPN client configuration file which is used to connect to VPN server. Note: For now, IP phone can only support OpenVPN.

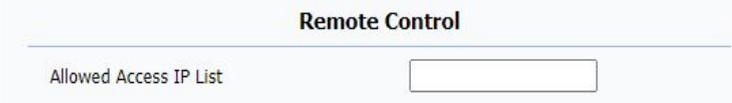
4.6 Door Phone-Door Phone

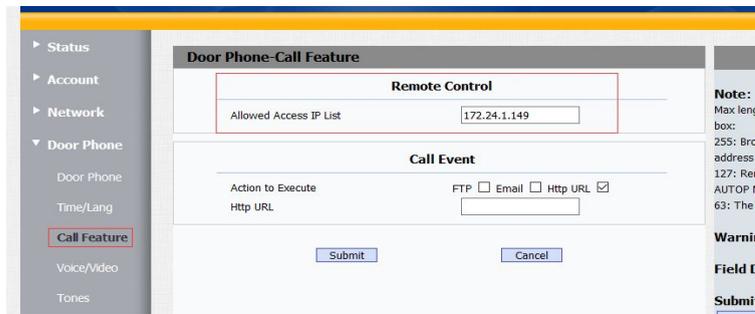
Section	Description
Call Button	<p>One-touch dial function :</p> <ul style="list-style-type: none"> ❖ Call Button: Set the corresponding number for one-button dialing. In the daytime time range, after one-button dialing, it will be rotated in the order of Call Button Day1, Call Button Day2, Call Button Day3; After the key is dialed, the number corresponding to Call Button Night will be dialed directly. ❖ Round Robin Time Out: When one-touch dialing, the dialed number has no response waiting interval.
System Time	<ul style="list-style-type: none"> ❖ Set system time
Day Night Setting	<p>Set the start of day time and night time :</p> <ul style="list-style-type: none"> ❖ Day Start : Starting point of daytime ; ❖ Night Start : Starting point of night time.
Door	<p>Configure access control unlock settings :</p> <ul style="list-style-type: none"> ❖ Door Digit : Select a number as the DTMF button to open the door of the indoor unit (when talking with the indoor phone, the indoor phone can open the door with this number key); ❖ Door Open Time : Set the door opening time, the intercom lock will open the door within this time ; ❖ Open Password(Note:Only C88 has this function) : Set a door opening password, enter this password on the access control machine + "dial key" button to open the door, the default initial password is 1234.
Hang Up After Open Door	(1) Configure the "time out" parameter as following page - the door opening delay time is 5S, as shown below:

	<div data-bbox="639 232 1378 360" data-label="Form"> <p>Hang Up After Open Door</p> <p>Time Out <input type="text" value="5"/> (0~15s)</p> </div> <p>And the DTMF of the door opening is configured as 1 (it can be other DTMF number)</p> <div data-bbox="647 633 1378 790" data-label="Form"> <p>Door</p> <p>Door Digit <input type="text" value="1"/></p> <p>Door Open Time <input type="text" value="5"/></p> </div> <p>Use softphone dials door phone. After the call is connected, press 1 on the soft-phone, then the doorphone can open the door and hang up the call 5 seconds later after the door is opened.</p> <p>(2) The configuration time of "doorphone" page "hang up after open door" is 5 seconds.</p> <p>(3) If the configuration time of "hang up after open door " on the "doorphone" page is 0s, hang up immediately after opening the door with DTMF.</p> <p>(4) If the configuration time of "hang up after open door " on the "doorphone" page is 0s, hang up immediately after opening the door .</p>
<p>Max Call Time</p>	<p>The longest talk time, it will automatically hang up after a limited time (time range is 0~ 30minutes), 0 minutes means no automatic hang up</p>
<p>Reboot Schedule</p>	<p>(1) On the doorphone page of the web page, configure the daily fixed point in time update, as shown below :</p> <div data-bbox="647 1865 1362 2024" data-label="Form"> <p>System Reboot</p> <p>Active <input type="text" value="Every Day"/></p> <p>Reboot Time <input type="text" value="17"/> <input type="text" value="50"/></p> <p>Reboot Interval <input type="text" value="4"/> (1~8h)</p> </div>

	<p>If the set time is reached, the device will reboot normally.</p> <p>Note that the current phone time can be referenced through the "system time" on the web</p> <div style="text-align: center; border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>SystemTime</p> <p>2020/07/05 09:39:20</p> </div> <p>This system time is associated to time zone, which is configured in the "doorphone > time / Lang" page</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">NTP</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Time Zone</td> <td style="border: 1px solid #ccc;">+8 China(Beijing)</td> </tr> <tr> <td>Primary Server</td> <td style="border: 1px solid #ccc;">0.pool.ntp.org</td> </tr> <tr> <td>Secondary Server</td> <td style="border: 1px solid #ccc;">1.pool.ntp.org</td> </tr> <tr> <td>Update Interval</td> <td style="border: 1px solid #ccc;">3600 (>= 3600s)</td> </tr> </table> </div> <p>(2) The configuration is updated automatically every n minutes. When the time is up, it can be updated normally</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>System Reboot</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Active</td> <td style="border: 1px solid #ccc;">Repeatedly</td> </tr> <tr> <td>Reboot Time</td> <td style="border: 1px solid #ccc;">17 50</td> </tr> <tr> <td>Reboot Interval</td> <td style="border: 1px solid #ccc;">1 (1~8h)</td> </tr> </table> </div>	Time Zone	+8 China(Beijing)	Primary Server	0.pool.ntp.org	Secondary Server	1.pool.ntp.org	Update Interval	3600 (>= 3600s)	Active	Repeatedly	Reboot Time	17 50	Reboot Interval	1 (1~8h)
Time Zone	+8 China(Beijing)														
Primary Server	0.pool.ntp.org														
Secondary Server	1.pool.ntp.org														
Update Interval	3600 (>= 3600s)														
Active	Repeatedly														
Reboot Time	17 50														
Reboot Interval	1 (1~8h)														
<p>Speed Dial Code</p>	<p>Set up a speed dial number :</p> <ul style="list-style-type: none"> ❖ Speed Dial Code(Note:Only C88 has this function): <p>You can configure numbers on the key interface 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, Security Staff, Ext Key, and use the keys to quickly dial the corresponding number.</p>														
<p>System Reboot</p>	<p>System restart :</p> <ul style="list-style-type: none"> ❖ Active : Choose from three types: Disable, Every Day 														

	<p>and Repeatedly;</p> <ul style="list-style-type: none"> ❖ Reboot Time : The point in time when the system restarts; only when Active selects Every Day, you need to configure the time to restart every day; ❖ Reboot Interval : Time interval for system restart; only when Active selects Repeatedly, you need to configure the time interval for repeated restart. 				
<p>Identify Door Phone</p>	<p>Click once to play beep sound, in order to distinguish the device.</p>				
<p>Door Open Sound</p>	<p>(1) On the "doorphone" page, configure the door opening prompt tone switch to "enable" and the sound type to "welcome"</p> <div data-bbox="630 1041 1378 1182" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Door Open Sound</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 2px;">Door Open Sound</td> <td style="padding: 2px;">Enabled ▼</td> </tr> <tr> <td style="padding: 2px;">Sound Type</td> <td style="padding: 2px;">Welcome ▼</td> </tr> </table> </div> <p>Use password to open the door and call DTMF. After opening the door, the prompt will use "welcome" sound to prompt.</p> <p>(2) If the sound type is configured as DTMF. Use password to open the door and call DTMF to prompt beep after opening the door.</p> <p>(3) If the "doorphone" page sets the door opening prompt tone switch to "disable". whether password or DTMF to open the door, there is no beep or welcome tone. (please note that when use DTMF to open the door, there is a DTMF sound on this side after receiving the number of DTMF, which is not beep tone)</p> <p>Note:</p> <p>If you find that the volume of the door opening prompt is low</p>	Door Open Sound	Enabled ▼	Sound Type	Welcome ▼
Door Open Sound	Enabled ▼				
Sound Type	Welcome ▼				

	<p>or high, you can adjust this parameter in the figure below:</p> 
<p>Web Call</p>	<p>The configuration steps are as follows :</p>  <p>Before using this function, you need to configure Remote control :</p>  <p>Only the configured host can control the web call. The configuration format is as follows: 192.168.1. *, 192.168. * *, 192.168.1.10. If the host address is not checked, it can be configured as: *. *. *.*</p>
<p>Open Relay Via HTTP</p>	<p>(1) Configured IP to send HTTP request to open the door</p>



Example: configure 192.168.3.8 to send HTTP request.

Go to page "Doorphone", enable "door open via HTTP", set Username and Password as below:

Open Relay Via HTTP	
Switch	Enabled <input type="button" value="v"/>
User Name	admin
Password

Enter the following URL on the browser page, and the door opening prompt tone will sound normally, and the relay will respond.

<http://192.168.3.25/fcgi/do?action=OpenDoor&UserName=admin&Password=admin&DoorNum=1>

Tips :

"192.168.3.25" is the Doorphone's IP address.

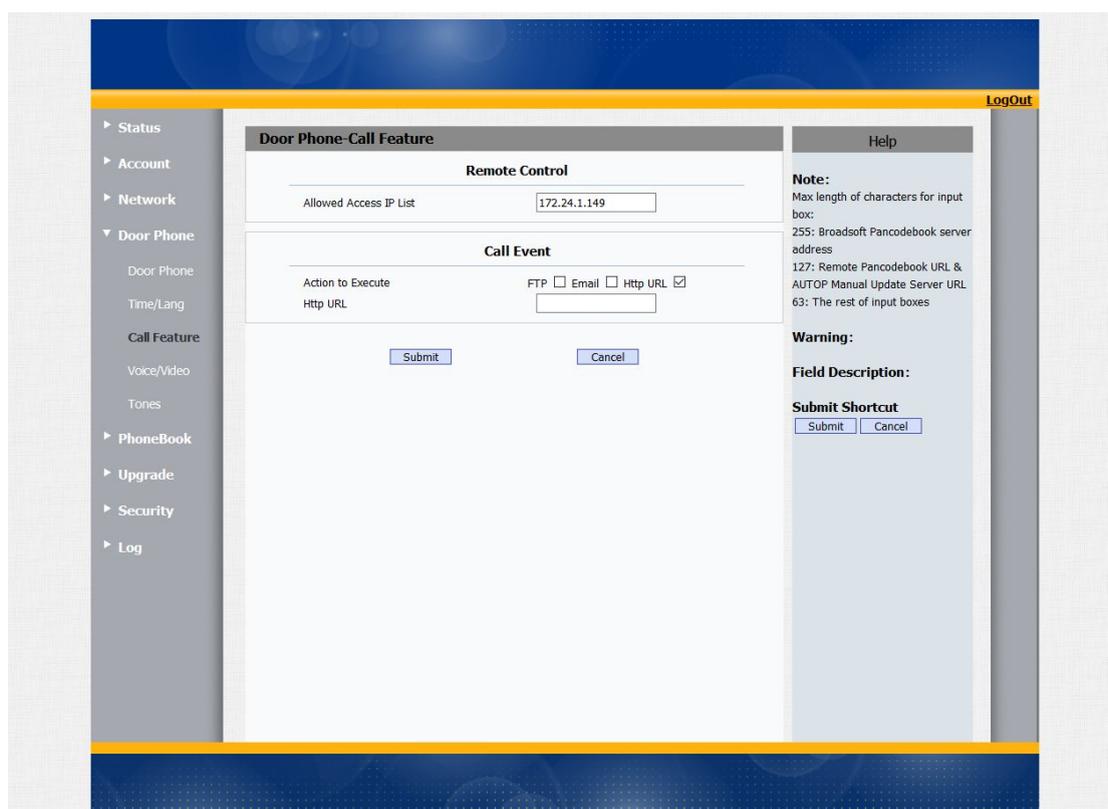
"DoorNum" is the door number.

D8X can control one door, and the value range is 1

"Username" and "password" are the username and password that set on above.

	<p>(3) if wrong username and password will not open the door, prompt tone will not play and no response to relay.</p> <p>(4) if "Door open via HTTP" is disable. Enter the correct URL, input correct username and password will not open the door.</p>
--	---

4.7 Call Feature



Section	Description
Remote Control	Configure the host IP of remote control: including remote HTTP relay control, remote web call control, etc., the allowed ip should be set here. You can use "*" for universal configuration, such as 192.168.1. *. All hosts within this network segment are considered to be legitimate hosts;
Call Event	The configuration interface is as follows :

Call Event

Action to Execute FTP Email Http URL

Http URL

Select FTP upload :

Call Event

Action to Execute FTP Email Http URL

User Name

Password

FTP Server

- 1) Configure FTP server
- 2) Set the user name and password of the corresponding FTP server and the IP address of the FTP server ;
- 3) Each call will send the video capture packet to the FTP server for saving ;

Select email upload :

Call Event

Action to Execute FTP Email Http URL

Mail To

Mail From

SMTP User

SMTP Password

SMTP Server

SMTP Port

- 1) Configure the email address, SMTP user name, password and server address and port ;
- 2) Configure the receiving email address ;
- 3) Each call will send the video capture packet to the corresponding receiving email address ;

HTTP URL Upload :

	<div data-bbox="630 197 1348 347"><p style="text-align: center;">Call Event</p><hr/><p>Action to Execute FTP <input type="checkbox"/> Email <input type="checkbox"/> Http URL <input checked="" type="checkbox"/></p><p>Http URL <input type="text"/></p></div> <ol style="list-style-type: none">1) Configure HTTP server2) Set the IP address corresponding to HTTP server ;3) Each call will send the video capture packet to the HTTP server for saving ;
--	--

4.8 Door Phone-Time/Lang

The screenshot shows the 'Time/Lang' configuration page. The left sidebar contains navigation links: Status, Account, Network, Door Phone, Time/Lang (selected), Voice/Video, Tones, Upgrade, and Security. The main content area is titled 'Time/Lang' and includes the following sections:

- Web Language:** Type: English (dropdown)
- LCD Language:** Type: English (dropdown)
- Format Setting:** Time Format: 12-hour (dropdown), Date Format: DD-MM-YYYY (dropdown), Display Mode: Day (dropdown)
- Type:** Radio buttons for Manual and Auto (Auto is selected). Manual options include Year, Mon, Day, Hour, Min, and Sec checkboxes.
- NTP:** Time Zone: GMT (dropdown), Primary Server: 0.pool.ntp.org, Secondary Server: 1.pool.ntp.org, Update Interval: 3600 (>= 3600s)
- Daylight Saving Time:** Active: Auto (dropdown), Offset: 60 (-300~300Minutes), By Date: Start Time (1 Mon, 1 Day, 0 Hour), End Time (12 Mon, 31 Day, 23 Hour), By Week: Start Month (Jan), Start Week Of Month (First In Month), Start Day Of Week (Monday), Start Hour (0 (0~23)), End Month (Dec), End Week Of Month (Fourth In Month), End Day Of Week (Sunday), End Hour (23 (0~23)).

At the bottom of the main content area are 'Submit' and 'Cancel' buttons. On the right, the 'Help' section contains a 'Note' about character limits, a 'Warning', and a 'Field Description' with 'Submit Shortcut' buttons for 'Submit' and 'Cancel'.

Section	Description
Web Language	Set the webpage display language.
LCD Language	Set LCD display language(Note:Only C88)
Format Setting	Configure time display settings :

	<ul style="list-style-type: none"> ❖ Time Format : Set the format for displaying time on the phone user interface (12 hours / 24 hours) ; ❖ Date Format : Set the format for displaying the date on the phone user interface ; ❖ Display Mode : Determine the mode for displaying time and date on the phone interface.
Type	<p>Choose how to configure the time, you can set the time manually, or you can get the time automatically from the Internet through the NTP server :</p> <ul style="list-style-type: none"> ❖ Manual : Set Date and Time manually ; ❖ Auto : Obtain time through NTP server. <p>Notice : If you set the time to manual, it will only take effect until the next reboot. The phone will automatically switch to automatic time mode after restarting, because the IP phone cannot record the time when it is powered off.</p>
NTP	<p>Configure the settings related to the NTP server:</p> <ul style="list-style-type: none"> ❖ Time Zone : Select local time zone for NTP server ; ❖ Primary Server : Configure the primary NTP server address ; ❖ Secondary Server : Configure the secondary NTP server address. If the primary NTP server cannot be accessed, the secondary NTP server takes effect ; ❖ Update Interval : Configure the interval between two consecutive NTP requests. <p>Notice : The NTP network time protocol is used to automatically synchronize local time and Internet time.</p>

	<p>Because the NTP server only responds to GMT time, you need to specify the IP phone's time zone to determine the local time</p>
<p>Daylight Saving Time</p>	<p>Display or configure DST settings :</p> <p>Notice : DST is an abbreviation for Daylight Saving Time, which means that the sun rises early in summer and will be adjusted forward to save daylight. DST will take effect during the period set by the user. (All settings of DST are self-explanatory, please consult your administrator for details of local DST).</p>

4.9 Door Phone-Voice/Video

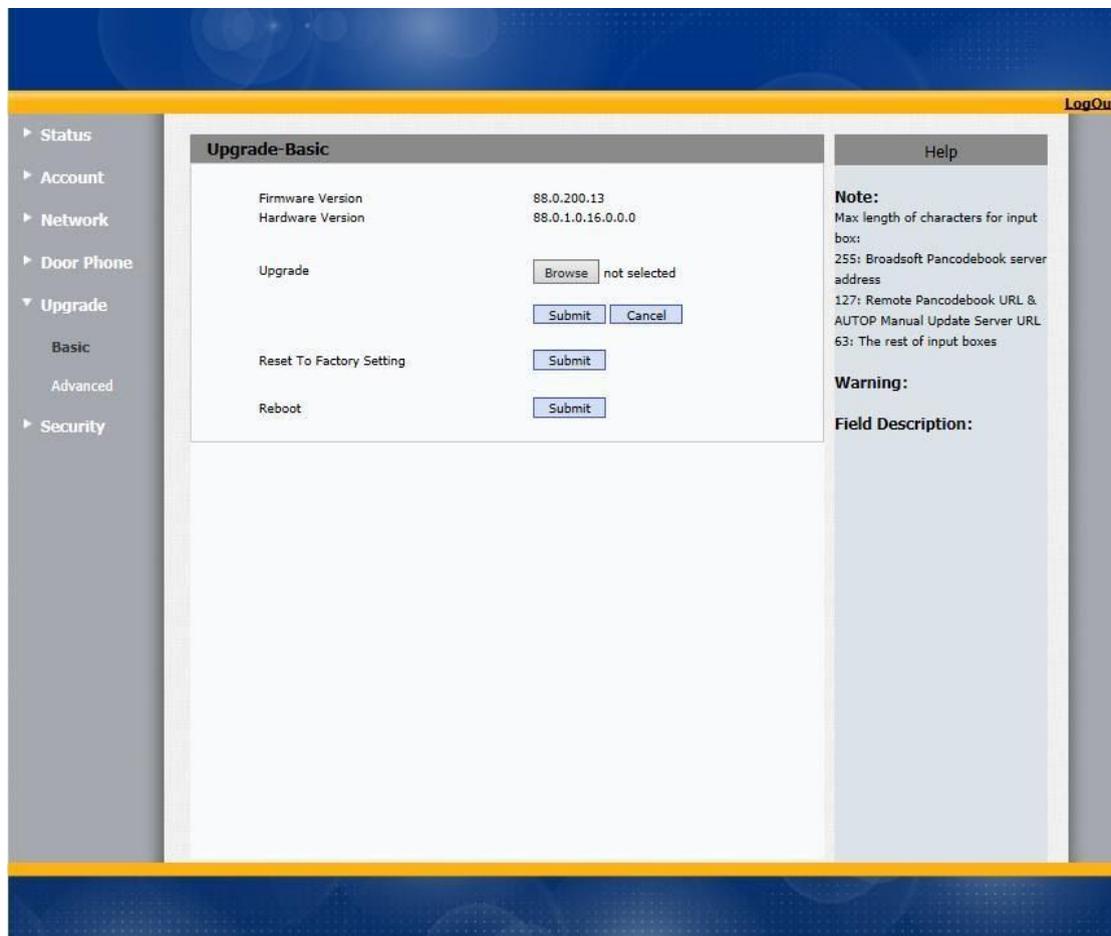
The screenshot shows a web-based configuration interface for a door phone system. The interface has a blue header with a 'LogOut' button in the top right corner. On the left, there is a vertical navigation menu with the following items: Status, Account, Network, Door Phone (expanded), Upgrade, and Security. Under 'Door Phone', the sub-items are Door Phone, Time/Lang, Voice/Video (selected), and Tones. The main content area is titled 'Voice/Video' and contains two sections: 'Mic Volume' and 'IP Camera'.
 The 'Mic Volume' section has a 'Hand Free Volume' input field with the value '8' and a range indicator '(1~15)'.
 The 'IP Camera' section includes a 'Resolution' dropdown menu set to '1280x720'. Below this are two radio button options: 'Default' (selected) and 'Custom'. Under 'Default', there are three input fields: 'Manual Rtsp URL', 'Device uuid', and 'Video Rtsp URL'. Under 'Custom', there are three input fields: 'Manual Rtsp URL', 'Device uuid' (with a dropdown arrow), and 'Video Rtsp URL'. At the bottom of the 'IP Camera' section are 'Submit' and 'Cancel' buttons.
 On the right side of the interface, there is a 'Help' section with a 'Note' and a 'Warning'. The 'Note' states: 'Max length of characters for input box: 255: Broadsoft Pancodebook server address, 127: Remote Pancodebook URL & AUTOP Manual Update Server URL, 63: The rest of input boxes'. Below the note is a 'Warning' section and a 'Field Description' section. At the bottom of the right sidebar are 'Submit Shortcut' buttons for 'Submit' and 'Cancel'.

Section	Description
Mic Volume	Configure the microphone volume for speaker mode.
IP Camera	<p>Configure the camera :</p> <ul style="list-style-type: none">❖ Resolution : Resolution setting ;❖ Custom : Choose one of ManulRtspURL, Manual UUID, Auto UUID to configure the camera ;❖ ManulRtspURL : The correct Rtsp URL must be filled in manually ;❖ Manual UUID : Manually fill in the correct UUID value and RTSP URL format of the camera, where the URL value ip can be arbitrarily filled in. After the data is submitted, the bottom layer will automatically obtain the camera IP corresponding to the UUID value and generate a URL. If the UUID entered is incorrect, the wrong RTSP URL value will be obtained ;❖ Auto UUID : When this method is selected, the webpage will provide a list of UUID values currently in the network for the user to choose. The user needs to select a UUID in the list and manually fill in the correct Rtsp URL format. The URL value can be filled in arbitrarily. After the data is submitted, the bottom layer will generate the corresponding Rtsp URL value according to the UUID value selected by the user.

4.10 Door Phone-Tones

Section	Description
Tone	<p>Allows users to select specific signal tones (classified by country) or customize their own signal tones.</p> <p>Notice : Available country signal tone sets include : China,Spain,Luxembourg,Sweden,Taiwan,Belgium,Denmark,Finland,Germany,Netherlands,Norway,Portugal, Italy.</p>

4.11 Upgrade-Basic



Section	Description
Upgrade	Select ROM file to upgrade automatically from local or remote server. Notice: Please make sure to use the right format and correct format file.
Firmware Version	Display firmware version number
Hardware Version	Display the hardware version number.
Reset To Factory Setting	Reset the phone to factory settings.
Reboot	Restart the phone remotely through the web interface.

4.12 Upgrade-Advanced

The screenshot displays the 'Upgrade-Advanced' configuration page. On the left is a navigation menu with categories: Status, Account, Network, Door Phone, Upgrade (subdivided into Basic and Advanced), and Security. The 'Advanced' section is selected. The main content area is titled 'Upgrade-Advanced' and contains several sections:

- PNP Option:** PNP Config is set to 'Enabled'.
- DHCP Option:** Custom Option is an empty text box with '(128~254)' to its right. A note below states '(DHCP Option 66/13 is Enabled by Default)'. There are 'Submit' and 'Cancel' buttons.
- Manual Autop:** Fields for URL, User Name, Password, Common AES Key, and AES Key(MAC) are present, each with a corresponding input box. A 'Submit' button is labeled 'AutoP Immediately'.
- Automatic Autop:** Mode is 'Disabled', Schedule is 'Sunday'. There are input boxes for 'Hour(0~23)' (value 22) and 'Min(0~59)' (value 0). Buttons for 'Clear MDS', 'Submit', 'Export Autop Template', and 'Export' are available.
- System Log:** LogLevel is '1'. Buttons for 'Export Log' and 'Export' are present. 'Remote System Log' is 'Disabled'. There is an input box for 'Remote System Server'.
- PCAP:** Buttons for 'Start', 'Stop', and 'Export' are present. 'PCAP Auto Refresh' is 'Disabled'.
- Others:** 'Config File(.tgz/.conf/.cfg)' is 'not selected'. Buttons for 'Browse', 'Export (Encrypted)', 'Import', and 'Cancel' are present.

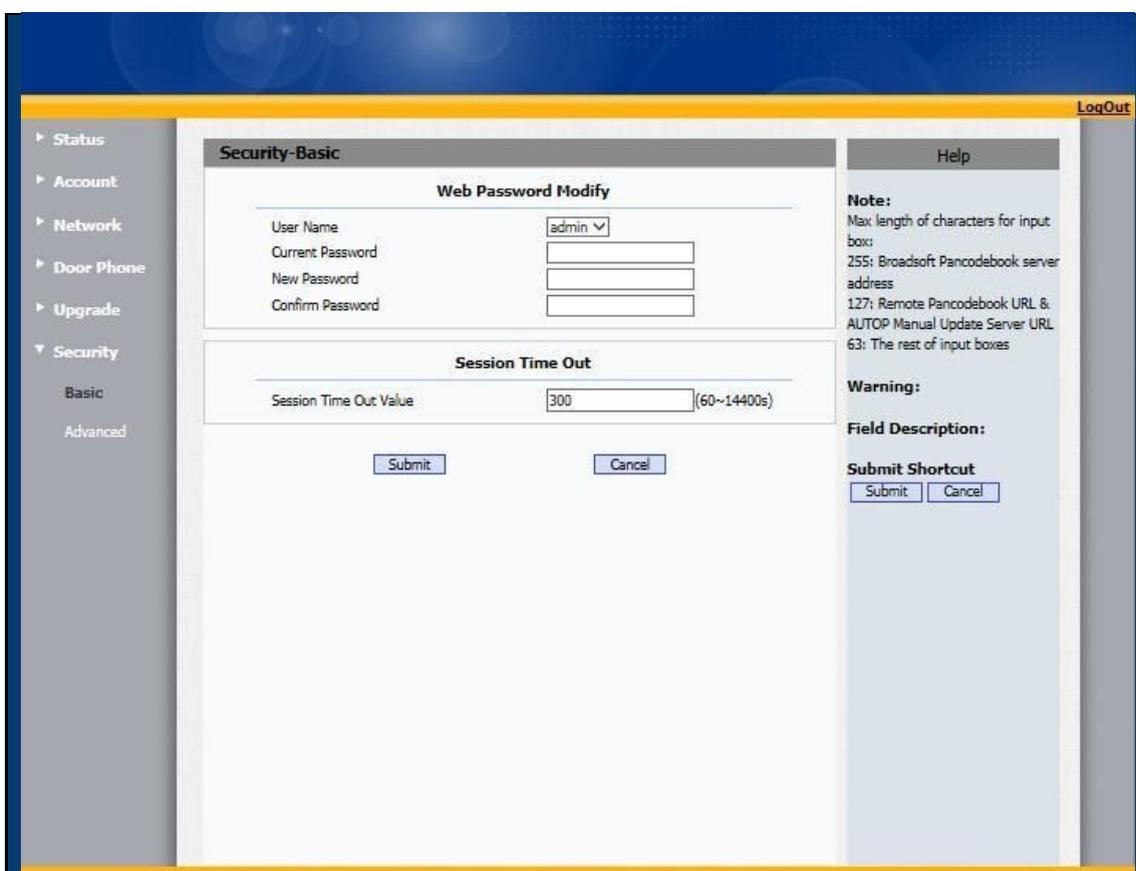
On the right side, there is a 'Help' section with a 'LogOut' link at the top. The 'Note' section states: 'Max length of characters for input box: 255: Broadsoft Pancodebook server address; 127: Remote Pancodebook URL & AUTOP Manual Update Server URL; 63: The rest of input boxes.' The 'Warning:' section is empty. The 'Field Description:' section is empty. The 'Submit Shortcut' section contains 'Submit' and 'Cancel' buttons.

Section	Description
PNP Option	<p>Display and configure PNP for automatic upgrade :</p> <ul style="list-style-type: none">❖ PNP Config: Plug and Play. Once PNP is enabled, the phone will automatically send SIP subscription messages to the PNP server to obtain the address of the automatic upgrade server. By default, this SIP message is sent to the multicast address 224.0.1.75 (PNP server address is standard).
DHCP Option	<p>Display and configure custom DHCP options :</p> <p>Custom Option : If this item is configured, the IP phone will use the specified DHCP option to obtain the address of the auto-configuration server through DHCP. This setting requires the DHCP server to support the corresponding options.</p>
Manual Autop	<p>Display and configure manual update server settings :</p> <ul style="list-style-type: none">❖ URL: automatically upgrade the server address ;❖ User Name : Configure whether the server needs a user name to access, otherwise leave it blank;❖ Password : Configure whether the server requires a password to access, otherwise leave it blank;❖ Common AES Key : Used to decrypt universal automatic configuration files for IP phones;❖ AES Key(MAC) : Used for IP phones to decode MAC-oriented automatic configuration files (for example, if the mac address of an IP phone is 0c110588888, the file name may be

	<p>0c110588888.conf).</p> <p>Notice : AES is one of many encryptions, it only needs to be configured when using AES to encrypt the configuration file, otherwise leave it blank.</p>
Automatic Autop	<p>Display and configure automatic configuration mode settings: This automatic upgrade mode is actually self-evident.</p> <p>Ex, "Power on" mode means that the IP phone is configured every time it is turned on.</p>
System Log	<ul style="list-style-type: none"> ❖ Display the system log level and export the system log file: ❖ LogLevel: from 0 to 7. A higher level means that more specific system logs will be saved to temporary files. By default, it is level 3; ❖ Export Log : Click here to export the temporary system log file to the local PC; ❖ Remote System Log : Enable or disable remote system logs ; ❖ Remote System Server : Configure the server address of the system log.
PCAP	<ul style="list-style-type: none"> ❖ Start and stop capturing packets or export captured packet files: ❖ Start : Start to capture all the packet files sent or received from the IP phone; ❖ Stop : Stop capturing packets <p>Notice : The IP phone saves the captured packet file to a</p>

	temporary file. The maximum size of the file is 1M (megabytes). Once the maximum value is reached, it will stop capturing.
Others	Display or configure other functions on this page: Config File: Export or import configuration files for IP phones.

4.13 Security-Basic



Section	Description
Web Password Modify	Change user password: <ul style="list-style-type: none"> ❖ Current Password : ; ❖ New Password ;

	❖ Confirm Password :
Session Time Out	Configure the user's session timeout : ❖ Session Time Out Value :

4.14 Security-Advanced

Security-Advanced

Web Server Certificate

Index	Issue To	Issuer	Expire Time	Delete
1	IPphone	IPphone	Sun Oct 9 16:00:00 2034	Delete

Web Server Certificate Upload

not selected

Client Certificate

Index	Issue To	Issuer	Expire Time	
1				<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Client Certificate Upload

Index

not selected

Only Accept Trusted Certificates

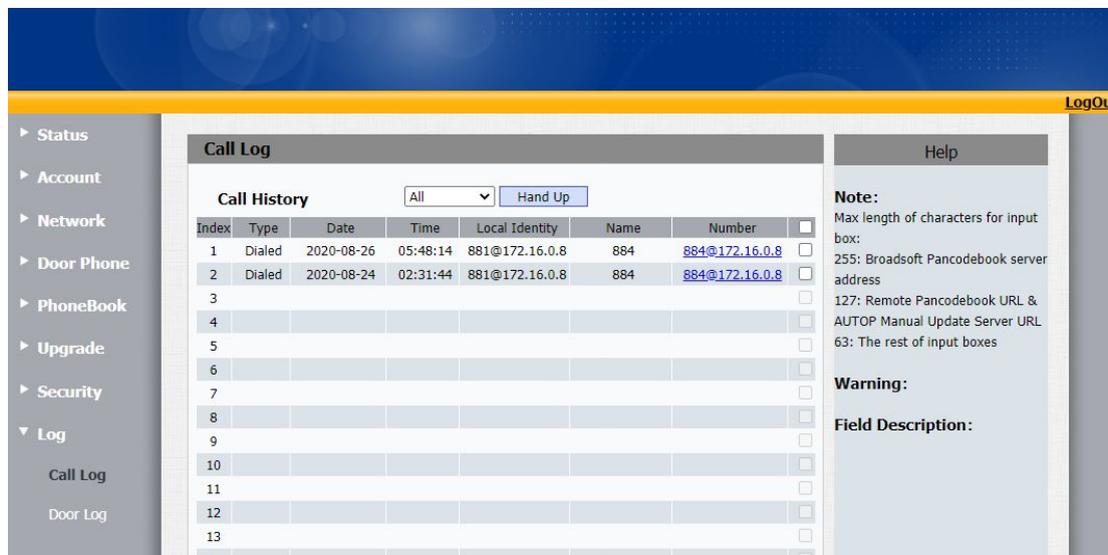
Help

Note:
Max length of characters for input box:
255: Broadsoft Pancodebook server address
127: Remote Pancodebook URL & AUTOP Manual Update Server URL
63: The rest of input boxes

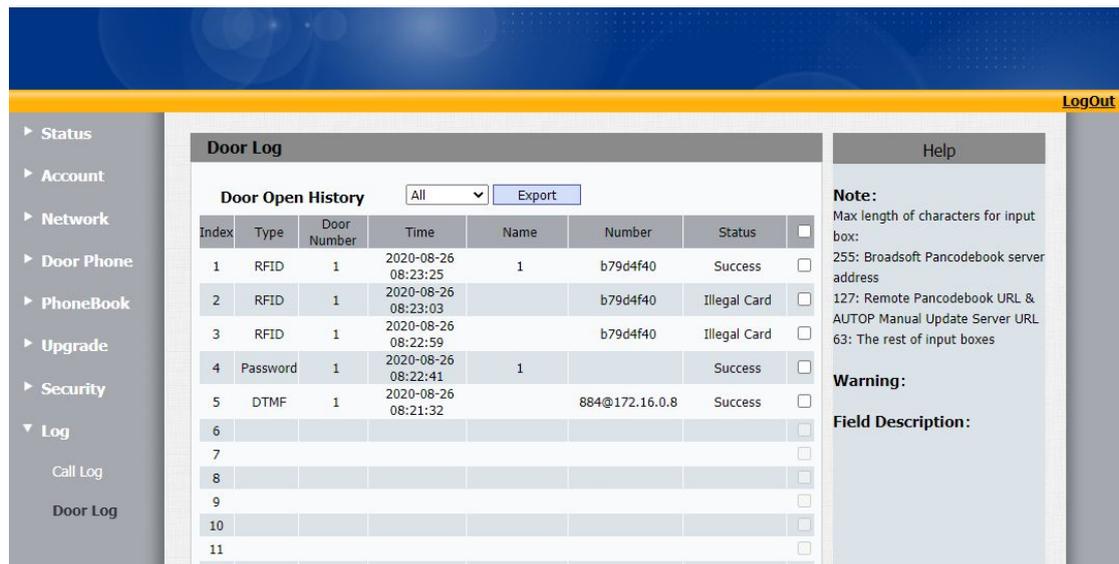
Warning:
Field Description:

Section	Description
Web Server Certificate	Display or delete all certificates used by HTTPS requests to connect to IP phones. Notice : Cannot delete the default certificate.
Web Server Certificate Upload	Upload the certificate file that will be used as the server certificate.
Client Certificate	Display or delete the certificate used when the IP phone connects to any HTTPS server.
Client Certificate Upload	Upload the certificate file to use as the client certificate: <ul style="list-style-type: none"> ❖ Only trusted certificates are supported: If this option is enabled, only trusted certificates are accepted.

4.15 Log



The page shows the status of the call; ;



The page displays the door opening mode, including password, DTMF, etc ;

Chapter 5 Fault Resolution

Problem 1 : LED not bright

- ❖ Check the AC power adapter to make sure it is the original power adapter.
- ❖ Check the power outlet. Make sure that the power supply of the outlet into which you plug the device is working properly. Try to plug another device into the outlet to make sure it can power up normally.

Problem 2 : Can't access the web interface

- ❖ Check the connection between the PC port of the device and the computer network port to make sure everything is working.
- ❖ Check if the IP address of the device is correct.

If it is a LAN, make sure that there is no conflict with the IP addresses of other devices on the network.

Problem 3 : Unable to call

- ❖ Please check the network connection status of the device, if there is any abnormality, please check the network connection ;
- ❖ If the network connection is normal, please check whether the device has been successfully registered ;
- ❖ If the network connection and registration are normal, please confirm whether the dialing rules are correct, or contact the service operator.

Appendix: Time Zone

Time Zone	Time zone name
-11	Samoa
-10	United States-Hawaii-Aleutian
-10	United States-Alaska-Aleutian
-9	United States-Alaska Time
-8	Canada(Vancouver,Whitehorse)
-8	Mexico(Tijuana,Mexicali)
-8	United States-Pacific Time
-7	Canada(Edmonton,Calgary)
-7	Mexico(Mazatlan,Chihuahua)
-7	United States-Mountain Time
-7	United States-MST no DST
-6	Canada-Manitoba(Winnipeg)
-6	Chile(Easter Islands)
-6	Mexico(Mexico City,Acapulco)
-6	United States-Central Time
-5	Bahamas(Nassau)
-5	Canada(Montreal,Ottawa,Quebec)
-5	Cuba(Havana)
-5	United States-Eastern Time
-4:30	Venezuela(Caracas)
-4	Canada(Halifax,Saint John)
-4	Chile(Santiago)
-4	Paraguay(Asuncion)
-4	United Kingdom-Bermuda(Bermuda)
-4	United Kingdom(Falkland Islands)

-4	Trinidad&Tobago
-4	Curaçao
-3:30	Canada-New Foundland(St.Johns)
-3	Denmark-Greenland(Nuuk)
-3	Argentina(Buenos Aires)
-3	Brazil(no DST)
-3	Brazil(DST)
-2	Brazil(no DST)
-1	Portugal(Azores)
0	GMT
0	Greenland
0	Denmark-Faroe Islands(Torshaven)
0	Ireland(Dublin)0
	Portugal(Lisboa,Porto,Funchal)
0	Spain-Canary Islands(Las Palmas)
0	United Kingdom(London)
0	Morocco
+1	Poland(Warsaw)
+1	Albania(Tirane)
+1	Austria(Vienna)
+1	Belgium(Brussels)
+1	Caicos
+1	Chatham
+1	Croatia(Zagreb)
+1	Czech Republic(Prague)
+1	Denmark(Copenhagen)
+1	France(Paris)

+1	Germany(Berlin)
+1	Hungary(Budapest)
+1	Italy(Rome)
+1	Luxembourg(Luxembourg)
+1	Makedonia(Skopje)
+1	Netherlands(Amsterdam)
+1	Namibia(Windhoek)
+2	Estonia(Tallinn)
+2	Finland(Helsinki)
+2	Gaza Strip(Gaza)
+2	Greece(Athens)
+2	Israel(Tel Aviv)
+2	Jordan(Amman)
+2	Latvia(Riga)
+2	Lebanon(Beirut)
+2	Moldova(Kishinev)
+2	Russia(Kaliningrad)
+2	Romania(Bucharest)
+2	Syria(Damascus)
+2	Turkey(Ankara)
+2	Ukraine(Kyiv,Odessa)
+3	East Africa Time
+3	Iraq(Baghdad)
+3	Russia(Moscow)
+3	30 Iran(Teheran)
+4	Armenia(Yerevan)
+4	Azerbaijan(Baku)

+4	Georgia(Tbilisi)
+4	Kazakstan(Aqtau)
+4	Russia(Samara)
+5	Kazakstan(Aqtobe)
+5	Kyrgyzstan(Bishkek)
+5	Pakistan(Islamabad)
+5	Russia(Chelyabinsk)
+5	Russia(Yekaterinburg)
+5:30	India(Calcutta)
+6	Kazakstan(Astana,Almaty)
+6	Russia(Novosibirsk,Omsk)
+7	Russia(Krasnoyarsk)
+7	Thailand(Bangkok)
+8	China(Beijing)
+8	Singapore(Singapore)
+8	Australia(Perth)
+9	Korea(Seoul)
+9	Japan(Tokyo)
+9:30	Australia(Adelaide)
+9:30	Australia(Darwin)
+10	Australia(Sydney,Melbourne,Canberra)
+10	Australia(Brisbane)
+10	Australia(Hobart)
+10	Russia(Vladivostok)
+10:30	Australia(Lord Howe Islands)
+11	New Caledonia(Noumea)
+12	New Zealand(Wellington,Auckland)

+12:45

New Zealand(Chatham Islands)

+13

Tonga(Nukualofa)