

User Manual X4

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Table of Content

Figur	igures		5
Table	S		8
1	Safety	y Instruction	9
2	Over	view	10
3	Installation		11
	3.1	Use PoE or external Power Adapter	11
	3.2	Desktop and Wall-mount Installation	12
4	Intro	duction to the Phone User Interface	14
	4.1	Keypad	14
	4.2	Using Handset / Hands-free Speaker / Headphone	15
	4.3	Screen User Interface	16
	4.4	Web Portal	17
5	Settin	ıg Up	19
	5.1	Network Configuration	19
	5.2	Line Configurations	20
6	Using	the Phone	28
	6.1	Making Phone Calls	28
	6.1.1	Make / Receive Second Call	34
	6.1.2	Join / Split Two Calls (3-way Local Conference)	36
	6.1.3	Call Transfer	36
	6.2	Using Phonebook	37
	6.2.1	Add / Edit / Delete Contact	39
	6.2.2	Add / Edit / Delete Group	39
	6.2.3	Browse and Add / Remove Contacts in Group	40
	6.3	Using Cloud Phonebook	41
	6.3.1	Open Cloud Phonebook	42
	6.4	Call Logs	43
	6.5	Voice Message	45
	6.6	Do-Not-Disturb	46
	6.7	Auto-Answering	48
	6.8	Call Forward	49





	6.9	DSS LCD Configuration	51
7	Pho	ne Settings	54
	7.1	Adjust Audio Volume	54
	7.2	Set Ring Tone Volume and Type	54
	7.3	Adjust LCD Contrast	54
	7.4	Set Device Time/Date	55
	7.5	Set Device Language	56
	7.6	Reboot the Device	56
	7.7	Reset to Factory Default	56
8	Web	Portal	57
	8.1	Web Portal Authentication	57
	8.2	Web Call	57
	8.3	SYSTEM / Information	58
	8.4	SYSTEM / Account	59
	8.5	SYSTEM / Configurations	59
	8.6	SYSTEM / Upgrade	59
	8.7	SYSTEM / Auto Provision	59
	8.8	SYSTEM / Tools	60
	8.9	NETWORK / Basic	60
	8.10	NETWORK / Advanced	60
	8.11	NETWORK / VPN	60
	8.12	LINES / SIP	60
	8.13	LINES / Dial Peer	65
	8.14	LINES / Dial Plan	69
	8.15	LINES / Global Settings	70
	8.16	PHONE / Features	70
	8.17	PHONE / Audio	74
	8.18	PHONE / MCAST	76
	8.19	PHONE / Time/Date	76
	8.20	PHONE / Advanced	77
	8.21	PHONEBOOK / Contacts	78
	8.22	PHONEBOOK / Cloud Phonebook	78
	8.23	PHONEBOOK / Blacklist	79
	8.24	PHONEBOOK / Advanced	79





	8.25	CALL LOGS80	J
	8.26	FUNCTION KEY / Function Key)
	8.27	FUNCTION KEY / Softkey	1
9	Adva	nced Features8	3
	9.1	VPN	3
	9.1.1	L2TP	3
	9.1.2	OpenVPN84	4
10	Trou	ble Shooting85	5
	10.1	Get Device System Information	5
	10.2	Upgrade to the latest software	5
	10.3	Reboot Device	5
	10.4	Reset Device to Factory Default	5
	10.5	Network Packets Capture	5
	10.6	Entering Post Mode and Recover System Image	5
	10.7	Common Trouble Cases	3
Apper	ndix I	- Icon Illustration90	0
Apper	ıdix I	I – Text Input from Keypad92	2
Apper	ndix I	II – LED Definition94	4





Figures

Figure 1	- Desktop Installation	12
Figure 2	- Change handset hook to wall-mount mode	. 错误!未定义书签。
Figure 3	- Wall-mount Installation	13
Figure 4	- Connecting to the Device	13
Figure 5	- Keypad	14
Figure 6	- Screen Layout / Default Standby Screen	16
Figure 7	- Vertical Scroll Bar	17
Figure 8	- Check the Device's IP Address	17
Figure 9	- Web Portal Login Page	18
Figure 10	- Configure SIP Proxy Server Address	20
Figure 11	- Configure SIP Proxy Server Port	21
Figure 12	- Configure SIP Username	21
Figure 13	- Configure Authentication Name	22
Figure 14	- Configure SIP Authentication Password	22
Figure 15	- Configure Display Name	23
Figure 16	- Enable / Disable Outbound Proxy	23
Figure 17	- Enable / Disable Sip Line	24
Figure 18	- Configure Advanced Line Options	24
Figure 19	- Configure SIP Realm/Domain	25
Figure 20	-Configure Unregistered Dial	25
Figure 21	- Enable / Disable Anonymous	25
Figure 22	- Configure DTMF Mode	25
Figure 23	- Enable / Disable STUN	25
Figure 24	- Configure Local Port	25
Figure 25	- Configure Ring Type	26
Figure 26	- Configure MWI Number	26
Figure 27	- Configure Pickup Number	26
Figure 28	- Configure Park Number	26
Figure 29	- Configure Join Call Number	26
Figure 30	- Enable / Disable Missed Call	26
Figure 31	- Enable / Disable Feature Sync	27
Figure 32	- Enable / Disable SCA	27





Figure 33	- Default Line	28
Figure 34	- Dialing a Number before Audio Channel Opened	29
Figure 35	- Dial a Number after Audio Channel Opened	30
Figure 36	- Calling Remote Party	31
Figure 37	- Incoming Call Screen	31
Figure 38	- Talking Mode Screen	33
Figure 39	- Call Holding Screen	34
Figure 40	- Dual Calls	35
Figure 41	- Conference Call	36
Figure 42	- Phonebook screen	37
Figure 43	- Phonebook is Empty	38
Figure 44	- Browsing Phonebook	38
Figure 45	- Add New Contact	39
Figure 46	- Group List	40
Figure 47	- Browsing Contacts in a Group	40
Figure 48	- Select (Add/Remove) Contacts in a Group	41
Figure 49	- Cloud Phonebook List	42
Figure 50	- Downloading Cloud Phonebook	42
Figure 51	- Browsing Contacts in Cloud Phonebook	43
Figure 52	- Call Logs	44
Figure 53	- Filter Call Log Type	44
Figure 54	- New Voice Message Notification	45
Figure 55	- Voice Message Screen	46
Figure 56	- Configure the Voice Message Number	46
Figure 57	- DND Enabled on All Lines	47
Figure 58	- Configure DND on Line	47
Figure 59	- DND Enabled on Line1	错误!未定义书签。
Figure 60	- Configure Auto-answering on Line1	48
Figure 61	- Auto-answering Enabled on Line1	49
Figure 62	- Select Line for Call Forward Configuration	50
Figure 63	- Select Call Forward Type	50
Figure 64	- Activate Call Forward and configure Call Forward Number .	51
Figure 65	- Set Delay Time for Call Forward on No Answer	51
Figure 68	- Web Call Controls	57
Figure 69	- Web Call. Entering Number and Select Line	58





Figure 70	- Global Substitution Configuration	67
Figure 71	- Local Substitution Configuration	67
Figure 72	- Add Prefixes Configuration	68
Figure 73	- Add Suffixes Configuration	68
Figure 74	- Deletion Configuration	69
Figure 75	- Softkey Configuration	82





Tables

Table 1 - Time Settings Parameters	55
Table 2 - Line Configuration on Web	60
Table 3 - Global Settings for Lines on Web	70
Table 4 - Common Phone Feature Settings on Web	71
Table 5 - Audio Settings on Web	74
Table 6 - MCAST Parameters on Web	76
Table 7 - Time/Date Setting Parameters on Web	77
Table 8 – DSS Key Setting Parameters on Web	80
Table 9 - Trouble Cases	88
Table 10 - Keypad Icons	90
Table 11 - Status Prompt and Notification Icons	90
Table 12 - Look-up Table of Characters	92
Table 13 - DSS KEY LED State	94





1 Safety Instruction

Please read the following safety notices before installing or using this unit. They are crucial for the safe and reliable operation of the device.

- Please use the external power supply that is included in the package. Other power supply may cause damage to the phone, affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage.
 Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This phone is design for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature or below 0^oC or high humidity.
- Avoid wetting the unit with any liquid.

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- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.





2 Overview

The new X4 color screen IP Phone is a high-end enterprise desktop phone which comes with an intelligent DSS Key-mapping LCD to increase enterprise users' productivity at a cost-effective price.

The DSS Key-mapping LCD is designed with intelligence to support dynamic usage to substitute expansion modules. There are 6 DSS keys corresponded to the color LCD display to provide dynamic Line/DSS/BLF functions up to five pages at virtualized total 30 DSS keys. User may configure/customize each DSS key in each page. Every DSS key has a LED indication in green, red, and yellow colors to reflect the key state. A page shortcut button is also designed to allow user to quickly switch between pages. X4 is the most economic choice for SMB office and enterprise supervisors.

X4 inherits all enterprise features from Fanvil's C-Series enterprise phones, such as HD voice in handset, headset, and full-duplex speakerphone modes, PoE, Fast/Gigabit Ethernet, QoS, secure transmission, auto-provisioning, and more.

X4 is a great office productivity appliance for enterprise users. The old DSS key label is inconvenient and not environmental friendly. X4's intelligent DSS Key-mapping LCD provides users the flexibility to change DSS key definition and display through easy configuration. Meanwhile, with its intelligent design of the DSS key/LCD, it can be multiplied as expansion modules to save space and cost. X4 will provide the best user experience to advance enterprise users."

In order to help some users who are interested to read every detail of the product, this user manual is provided as a user's reference guide. Still, the document might not be up to date with the newly release software, so please kindly download updated the latest user manual from website, or contact with support if you have any question using X4.





Installation 3

3.1 Use PoE or external Power Adapter

X4, called as 'the device' hereafter, supports two power supply modes, power supply from external power adapter and X4 supports 802.3af Class 2 Power over Ethernet (PoE) complied switch (PoE support also applies to X4G).

PoE power supply saves the space and cost of providing the device additional power outlet. With a PoE switch, the device can be powered through a single Ethernet cable which is also used for data transmission. By attaching UPS system to PoE switch, the device can keep working at power outage just like traditional PSTN telephone which is powered by the telephone line.

For users who do not have PoE equipment, the traditional power adapter should be used. If the device is connected to a PoE switch and power adapter at the same time, the power adapter will be used in priority and will switch to PoE power supply at power failure on the power adapter.

Please use the power adapter supplied and the PoE switch met the specifications to ensure the device worked properly.





3.2 Desktop and Wall-mount Installation

The device supports two installation mode, desktop and wall-mount. To set up the phone to be used on desktop, please follow the instructions in below picture to install the device.

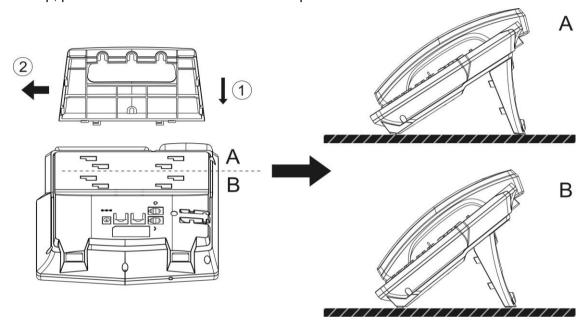


Figure 1 - Desktop Installation

To mount the device on the wall, please follow the instructions in below picture.





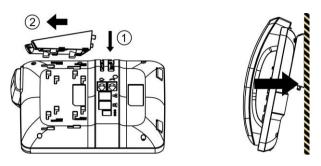


Figure 2 - Wall-mount Installation

Please connect power adapter, network, PC, handset, and headphone to the corresponding ports as described in below picture.

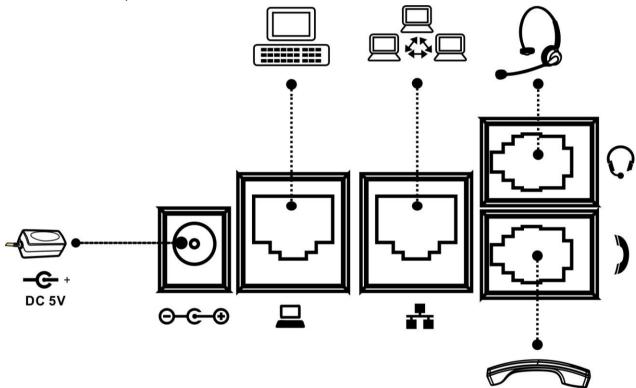


Figure 3 - Connecting to the Device

NOTICE! Power adapter is optional for both X4 and X4G model





4 Introduction to the Phone User Interface

4.1 Keypad

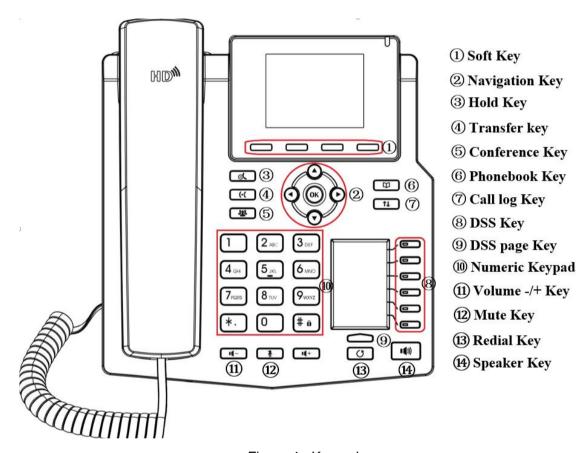


Figure 4 - Keypad

The above picture shows the keypad layout of the device. Each key provides its own specific function. User should refer to the illustration in this section about the usage of each key and the description in this document about each function.

Some keys support long-pressing function. User can press and hold the key for 1.5 seconds to trigger the long-pressed function.

- Soft keys These four buttons provide different functions corresponding to the soft-menu displayed on the screen.
- Standard Telephone Keys The 12 standard telephone keys provide the same function as





standard telephones, but further to the standard function, some keys also provide special function by long-pressing the key.

- Key # Long-pressed to lock the phone. (Default PIN is 123)
- Key Page Long-pressed to open DSS LCD page configuration.
- Navigation Keys User can press up/down navigator keys to change line focus in talking screen or move cursor in a screen with list items; in some configuration or text editor screen, user can press left/right navigator keys to switch option or move cursor to the left / right.
- Redial By pressing 'Redial' button, user can redial the last dialed number.
- Hands-free Speaker By pressing this button once, user can turn on the audio channel of hands-free speaker
- Microphone Mute User can mute the microphone with this button during talking mode.
- Call logs By pressing 'Call logs' button, user open call logs as a shortcut.
- Phonebook By pressing 'Phonebook' button, user open phonebook as a shortcut.
- Page-Switch By pressing this button once, user can switch DSS LCD page one by one.
- Volume -/+ In standby, ringing, ring configuration screen, user can press 2 buttons to lower/increase the ringtone volume; in talking and audio volume adjustment screen, user can press this button to lower/increase the audio volume.

4.2 Using Handset / Hands-free Speaker / Headphone

Using Handset

To talk over handset, user should lift the handset off the device and dial the number, or dial the number first, then lift the handset and the number will be dialed. User can switch audio channel to handset by lifting the handset when audio channel is opened in speaker or headphone.

Using Hands-free Speaker

To talk over hands-free speaker, user should press the hands-free button then dial the number, or dial the number first then press the hands-free button. User can switch audio channel to the speaker from handset by pressing the hands-free button when audio channel is opened in handset.

Using Headphone

To use headphone, by default, user should headset button which is defined by DSS key to turn on the headphone. Same as handset and hands-free speaker, user can dial the number before or after headphone turned on.





■ Using Line Keys(Defined by DSS Key)

User can use line key to make or answer a call on specific line. If handset has been lifted, the audio channel will be opened in handset, otherwise, the audio channel will be opened in hands-free speaker or headphone.

4.3 Screen User Interface

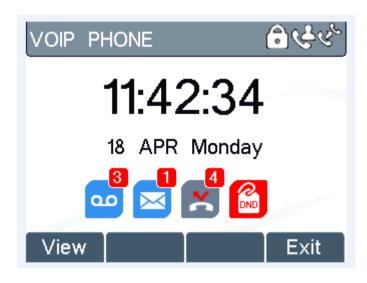


Figure 5 - Screen Layout / Default Standby Screen

The screen user interface is mostly presented in the above layout except some prompt messages. The upper area is the main screen to display the device's status and information or data for viewing or editing. The lower area is the software menu (soft-menu) buttons which will change against user's action or device's status.

The above picture shows the default standby screen which is also the root of the soft-menu. The default standby screen shows the greeting words and effective feature indications like voice message, missed call, auto-answering, do-not-disturb, call forward, lock state, and the network connectivity. User can get back to the default standby screen mostly by lifting and putting by the handset.

The icon illustration is described in **Appendix I - Icon Illustration**.

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In some screens, there are more items or long text to be displayed which could not fit into the screen. They will be arranged in a list or multiple lines with a scroll bar. If user sees a scroll bar, user can use up/down navigator buttons to scroll the list. By long-pressed the navigator keys, user can scroll the list or items in a faster speed.

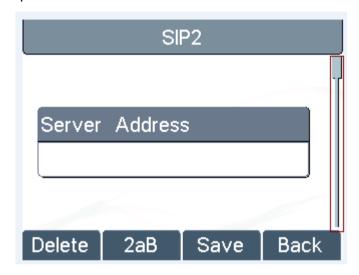


Figure 6 - Vertical Scroll Bar

4.4 Web Portal

User can also use the device's web portal to manage or operate the device. User should open the device's web portal page by entering the device's IP address in a browser. To get the device IP address, user could press the soft-menu button [Menus] -> [Status] or by pressing [Down] navigator key.

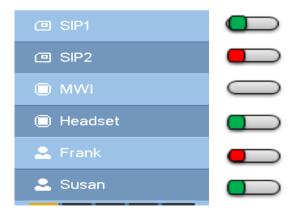


Figure 7 - Check the Device's IP Address





The first screen of the device's web portal is the login page.

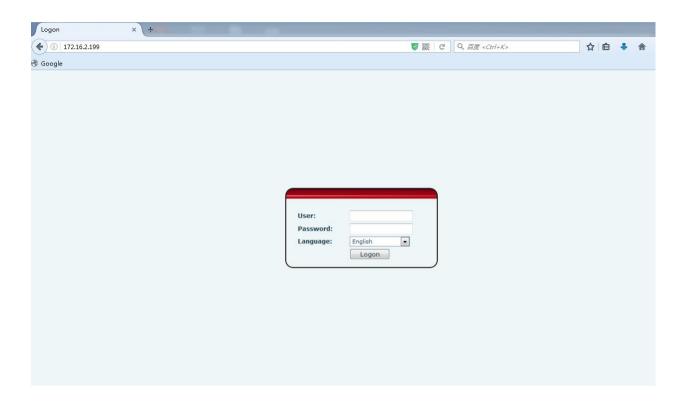


Figure 8 - Web Portal Login Page

User must enter the username and password to log in to the web portal. **The default username and password are both 'admin'**. For the detail of web portal operations, please refer to **8 Web Portal**.





5 Setting Up

In order to get the device ready for making and receiving phone calls, the device must be configured with correct network configurations and at least one of the lines must be configured with an IP telephony service.

5.1 Network Configuration

The device relies on IP network connection to provide service. Unlike traditional phone system based on a circuit switched wire technology, IP devices are connected to each other over the network and exchange data in packet basis based on the devices' IP address.

To enable the device, the network parameters must be configured properly first. To configure network parameters, user should open the network configuration screen through soft-menu [Menu] -> [Settings] -> [Advanced Settings] -> [Network] -> [Network Settings] from standby screen.

NOTICE! If user saw a "Network Disconnected' icon flashing in the middle of screen, it means the network cable was not correctly connected to the device's network port. Please check the cable is connected correctly to the device and to the network switch, router, or modem.

There are three common IP configuration modes.

- Dynamic Host Configuration Protocol (DHCP) This is the automatic configuration mode by getting network configurations from a DHCP server. Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.
- Static IP Configuration This option allows user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in an office environment or by power users.
- PPPoE This option is often used by users who connect the device to a broadband modem or router. To establish a PPPoE connection, user should configure username and password provided by the service provider.





The device is default configured in DHCP mode.

5.2 Line Configurations

A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card. Just like a SIM card on a mobile phone, it stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, it will register the device to the service provider with the server's address and user's authentication as stored in the configurations.

To configure a line manually, user may open the line configuration screen through soft-menu button [Menu] -> [Settings] -> [Advanced Settings] -> [Accounts] -> [SIP1] / [SIP2] / [SIP3] / [SIP4] -> [Basic Settings] from the standby screen.

NOTICE! User must enter correct PIN code to be able to advanced settings to edit line configuration. (The default PIN is 123)

The parameters and screens are listed in below pictures.

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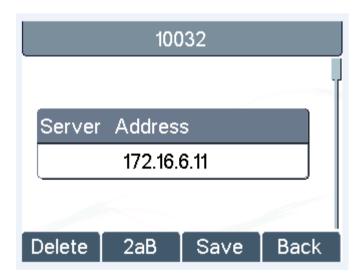


Figure 9 - Configure SIP Proxy Server Address





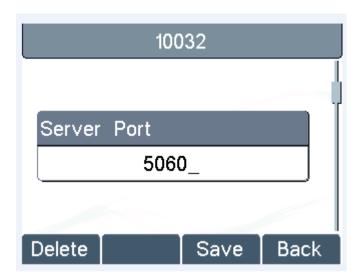


Figure 20 - Configure SIP Proxy Server Port

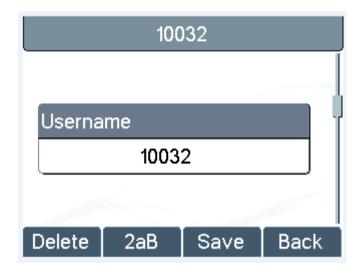


Figure 31 - Configure SIP Username





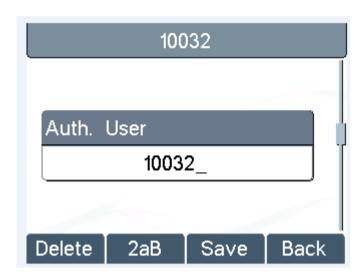


Figure 4 - Configure Authentication Name

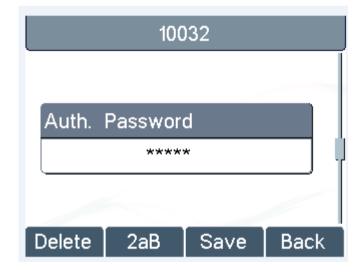


Figure 5 - Configure SIP Authentication Password





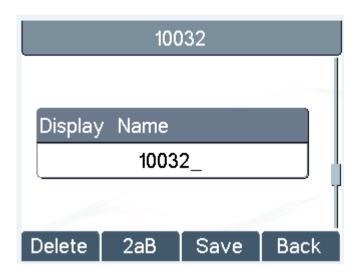


Figure 6 - Configure Display Name

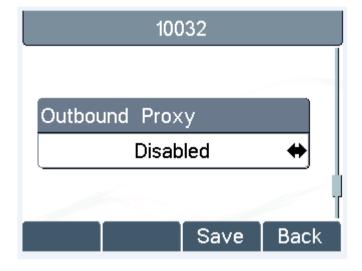


Figure 7 - Enable / Disable Outbound Proxy





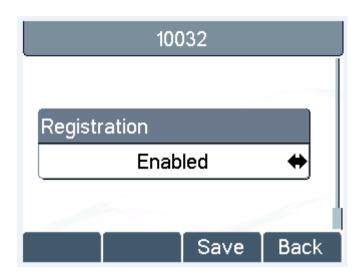


Figure 8 - Enable / Disable Sip Line

Save the adjustment by pressing [OK] or [Save] when done.

For users who want to configure more options, user should use web management portal to modify or Advanced Settings in accounts on the individual line to configure those options.



Figure 9 - Configure Advanced Line Options





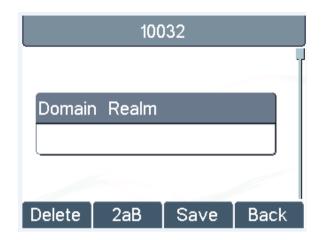


Figure 10 - Configure SIP Realm/Domain

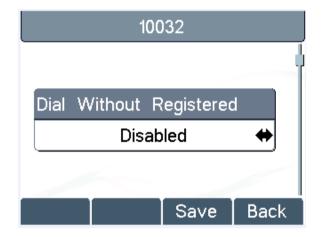


Figure 19 - Configure Unregistered Dial

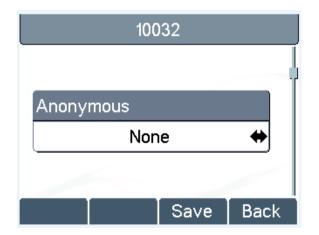


Figure 11 - Enable / Disable Anonymous

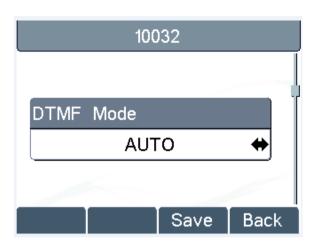


Figure 12 - Configure DTMF Mode

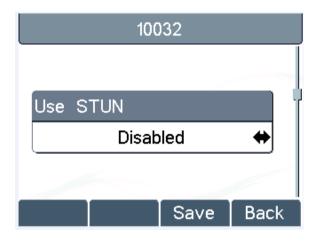


Figure 13 - Enable / Disable STUN

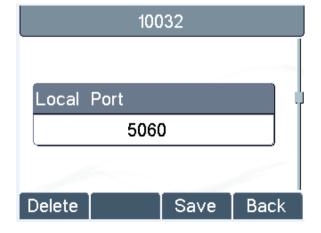


Figure 14 - Configure Local Port





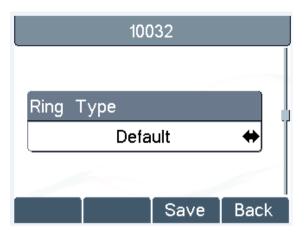


Figure 154 - configure Ring Type

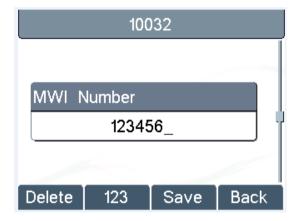


Figure 16 - Configure MWI Number



Figure 176 - Configure Pickup Number



Figure 18 - Configure Park Number

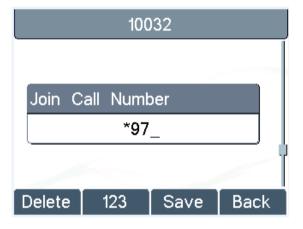


Figure 19 - Configure Join Call Number

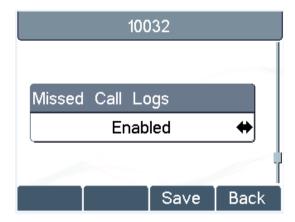
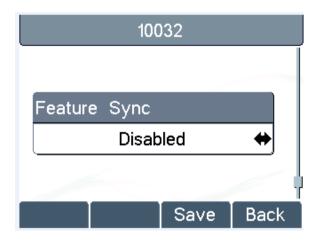


Figure 29 - Enable / Disable Missed Call







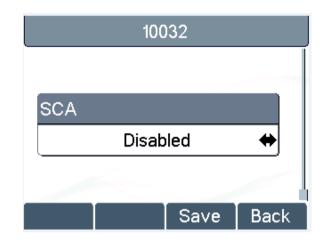


Figure 200 - Enable / Disable Feature
Sync

Figure 21 - Enable / Disable SCA

NOTICE! On the device, user can only configure whether STUN / Outbound Proxy is enabled, to change the STUN / Outbound Proxy server address, user must edit in the device web portal. (Refer to 错误!未找到引用源。 LINES / Global Settings and 错误!未找到引用源。 错误!未找到引用源。 错误!未





6 Using the Phone

6.1 Making Phone Calls

■ Default Line

The device provides 2 line services. If both lines are configured, user can make or receive phone calls on either line. If default line is configured by user, there will be a default line to be used for making outgoing call which is indicated on the top left corner. To change the default line, user can press left/right navigator buttons to switch between two lines. Enable or disable default line, user can press [menu] - > [Features] -> [Default Line] or configure from Web Interface (Web / PHONE Settings / Features).



Figure 22 - Default Line

■ Dialing Methods

User can dial a number by,

- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to 6.2 Using Phonebook)
- Selecting a phone number from cloud phonebook contacts (Refer to 6.3 Using Cloud d Phonebook)
- Selecting a phone number from call logs (Refer to 6.4 Call Logs)
- Redialing the last dialed number

Dialing Number then Opening Audio





To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press [Dial] button on the soft-menu, or press hand-free button to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press line key(Configured by DSS Keys) to call out with specified line.



Figure 23 - Dialing a Number before Audio Channel Opened

Opening Audio then Dialing the Number

Another alternative is the traditional way to firstly open the audio channel by lifting the handset, turning on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When number dialed completed, user can press [Dial] button or [OK] button to call out, or the number will be dialed out automatically after timeout.







Figure 24 - Dial a Number after Audio Channel Opened

NOTICE! For some users who get used to dial a number immediately by pressing # key, the user must login to the web to enable 'Press "#" to invoke dialing' option in page [Line] -> [Dial Plan] -> "Basic Settings" and apply it.





■ Cancel Call

While calling the number, user can press [End] button or close the audio channel by put back the handset or press the hands-free button to drop the call.



Figure 25 - Calling Remote Party

■ Answering Incoming Call

When there is an incoming call while the device is idle, user will see the following incoming call alerting screen

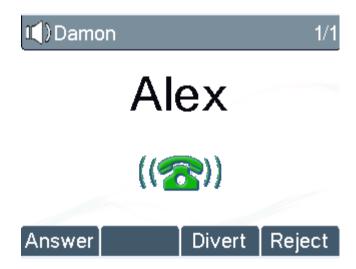


Figure 26 - Incoming Call Screen

User can answer the call by lifting the handset, open headphone or speaker phone by pressing the hands-free button, or the [OK] / [Answer] button. To divert the incoming call, user should press





[Divert] button. To reject the incoming call, user should press [Reject] button.





■ Talking

When the call is connected, user will see a talking mode screen as the following figure,



Figure 27 - Talking Mode Screen

- 1.Audio Channel The icon reflects the current audio channel being used.
- 2.Current Line The line is being used on the call.
- 3.Remote Party The name or number of the remote party.
- **4.Talking time –** The time passed since the call established.
- **5.Screen Pages –** The number of screen pages. User can press up/down navigator buttons to switch screen page.

■ Call Holding /Resuming

User can hold the remote party by pressing [Hold] button and the button will be changed to [Resume] icon. User can press the [Resume] button to resume the call.







Figure 28 - Call Holding Screen

■ Call Ended

When user finished the call, user can put the handset back to the device to hang up the call or press the hands-free button to close the audio channel to hang up.

NOTICE! When the call is held or in holding state, the user must press [Resume] button to back to call mode, or putting the handset back to the device or pressing Speaker-free button to hang up is not available.

6.1.1 Make / Receive Second Call

The device can support up to two concurrent calls. When there is already a call established, user can still answer another incoming call on either lines or make a second call on either lines.

■ Second Incoming Call

When there is another incoming call during talking a phone call, this call will be waiting for user to answer it. User will see the call message in the middle of current screen. The device will not be ringing but playing call waiting tone in the audio channel of the current call and the LED will be flashing in green. User can accept or reject the call same as normal incoming call. When the waiting call is answered, the first call will be put on hold automatically.







Figure 39 - Second Incoming Call Screen

Second Outgoing Call

To make a second call, user may press [XFER] / [Conf] button to make a new call on the default line or press the line key to make new call on specific line. Then dial the number the same way as making a phone call. Another alternative for making second call is to pressing DSS Keys dial out from the configured Keys (BLF/Speed Dial). When user is making a second call with the above methods, the first call could be place on hold manually first or will be put on hold automatically at second dial.

■ Switching between Two Calls

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When there are two calls established, user will see a dual calls screen as the following picture,



Figure 29 - Dual Calls

User can press up/down navigator buttons to switch screen page, and switch call focus by pressing





[Hold] / [Resume] button.

■ Ending One Call

User may hang up the current talking call by closing the audio channel or press [End] button. The device will return to single call mode in holding state.

6.1.2 Join / Split Two Calls (3-way Local Conference)

In the dual call mode, user can join two calls into a conference call by pressing [Conf] button. When two calls are joined, user can split them by pressing [Split] button.



Figure 30 - Conference Call

6.1.3 Call Transfer

When the user is talking with a remote party and wish to transfer the call to another remote party, there are two way to transfer the call, attended and unattended.

Attended Transfer

The attended call transfer is also known as the 'polite mode' which is to dial through the other remote party, wait for the remote party to answer the call and then transfer the call.

This is the same procedure as making two concurrent calls. In the dual call mode, press the [XFER]





button to transfer the first party to the second one.

Unattended / Blind Transfer

Unattended transfer is also known as 'Fire and Forget' mode. Instead of connecting to the second party first and confirming the second call is established, user press [XFER] button first then dial the second party number. When the number is dialed, user can press[XFER] button again and the first party will be transfer to the second.

This is like helping the first party to dial to the second one. However, the transfer could be successful if the second party answered it, or could be failed if the second party is busy or rejected it.

NOTICE! More advanced transfer configuration, please refer to 错误!未找到引用源。 错误!未找到引用源。.

6.2 Using Phonebook

User can save contacts' information in the phonebook and dial the contact's phone number(s) from the phonebook. To open the phonebook, user can press soft-menu button [Dir] in the default standby screen or keypad.

By default the phonebook is empty, user may add contact(s) into the phonebook manually or from call logs .

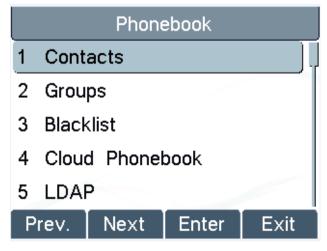






Figure 31 - Phonebook screen

NOTICE! The device can save up to total 500 contact records.



Figure 32 - Phonebook is Empty

When there are contact records in the phonebook, the contact records will be arranged in the alphabet order. User may browse the contacts with up/down navigator keys. User may fast scroll the contact list by holding the up/down navigator keys. The record indicator tells user which contact is currently focused. User may check the contact's information by pressing [OK] button.



Figure 33 - Browsing Phonebook



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6.2.1 Add / Edit / Delete Contact

To add a new contact, user should press [Add] button to open Add Contact screen and enter the contact information of the followings,

- Contact Name
- Tel. Number
- Mobile Number
- Other Number
- Ring Tone
- Contact Group



Figure 34 - Add New Contact

User can edit a contact by pressing [Option] -> [Edit] button.

To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [Option] -> [Delete] button and confirm with [Yes].

6.2.2 Add / Edit / Delete Group

User can open the group list by pressing [Groups] button in phonebook screen.





By default, the group list is blank. User can create his/her own groups, edit the group name, add or remove contacts in the group, and delete a group.

To add a group, press [Add] button.

To delete a group, press [Option] -> [Delete] button.

To edit a group, press [Edit] button.

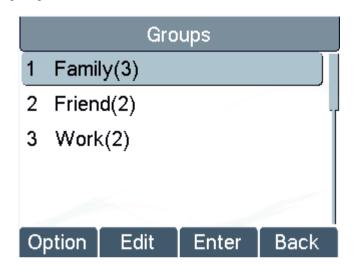


Figure 35 - Group List

6.2.3 Browse and Add / Remove Contacts in Group

User can browse contacts in a group by opening the group in group list with [OK] button.

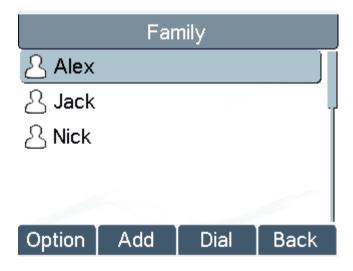


Figure 36 - Browsing Contacts in a Group

When user is browsing contacts of a group, user can also add or remove contacts in that group by



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pressing [Add] button to enter the group contacts management screen. Press [Add] button to create a new contact for the group; press [Option] button to remove the contact from the group.

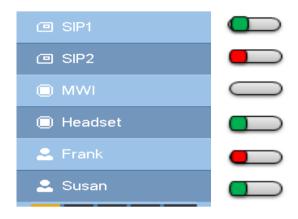


Figure 37 - Add/Remove Contacts in a Group

6.3 Using Cloud Phonebook

Cloud phonebook allows user to configure the device to download a phonebook from a cloud server. This is very useful for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool for user to synchronize his/her phonebook from a personal mobile phone to the device with Cloud Phonebook Service and App which is to be provided publicly soon.

NOTICE! The cloud phonebook is ONLY temporarily downloaded to the device each time it is opened on the device to ensure the user get the most up to date phonebook. However, the downloading may take a couple seconds depending on the network condition. Therefore, it is highly recommended to the users to save important contacts from cloud to local phonebook to save the time of waiting for downloading.

To open cloud phonebook list, press [Cloud Phonebook] in phonebook screen.







Figure 38 - Cloud Phonebook List

6.3.1 Open Cloud Phonebook

In cloud phonebook screen, user can open a cloud phonebook by pressing [OK] / [Enter] button. The device will start downloading the phonebook. If downloading failed, user will be prompted with a warning message.

Once the cloud phonebook is downloaded completed, user may browse the contact list and dial the contact number same as in local phonebook.



Figure 39 - Downloading Cloud Phonebook





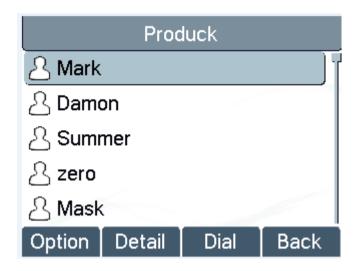


Figure 40 - Browsing Contacts in Cloud Phonebook

6.4 Call Logs

The device can store up to 600 call log records and user can open the call logs to check all incoming, outgoing, and missed call records by pressing soft-menu button [History]

In the call logs screen, user may browse the call logs with up/down navigator keys.

Each call log record is presented with 'call type' and 'call party number / name'. User can check further call log detail by pressing [OK] button and dial the number with [Dial] button, or add the call log number to phonebook with pressing [Option] -> [Add to Contact].

User can delete a call log by pressing [Delete] button and can clear all call logs by pressing [Clear] button.





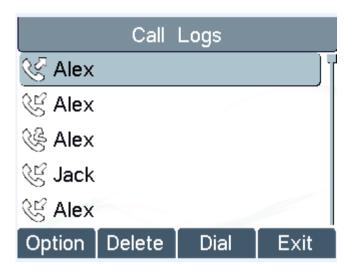


Figure 41 - Call Logs

User can also filter call logs with specific call log type to narrow down the call log records by pressing the left/right navigator button and select one of the call log types in the soft-menu buttons,



- Missed Calls



- Received Calls / Incoming Calls



- Dialel Calls / Outgoing Calls

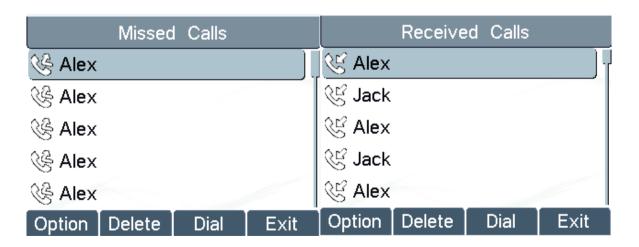


Figure 42 - Filter Call Log Type





6.5 Voice Message

If the service of the lines supports voice message feature, when the user is not available to answer the call, the caller can leave a voice message on the server to the user. User will receive voice message notification from the server and device will prompt a voice message waiting icon on the standby screen,

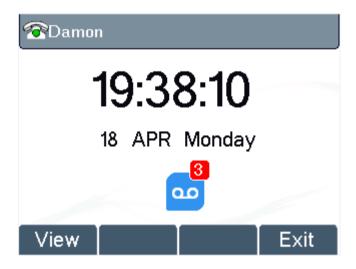


Figure 43 - New Voice Message Notification

To retrieve the voice messages, user must configure the voice message number first. Once the voice message number is configured, user can retrieve the voice message of a line by pressing the [Dial] button in the voice message screen.

- Check the [MWI] button.
- Press [MWI] button to open voice message configuration screen, select the line to be configured with up/down navigator keys.
- Press [Edit] button to enable and edit the voice message number, when done, press [OK] / [Save] button to save the configuration.





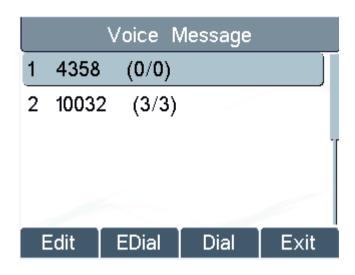


Figure 44 - Voice Message Screen

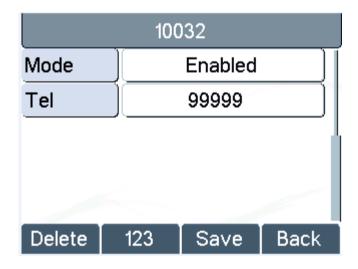


Figure 45 - Configure the Voice Message Number

6.6 Do-Not-Disturb

User may enable Do-Not-Disturb (DND) feature on the device to reject incoming calls (including call waiting). The DND can be enabled on line basis.

To quickly enable or disable the DND on all lines,

When the device is in the default standby mode,

Press [DND] button to enable DND on all line and icon will be displayed on the screen.





Press [DND] button again to disable DND on all line and icon will be disapeared.



Figure 46 - DND Enabled on All Lines

If user wishes to enable or disable DND on a specific line, user could change the DND mode in DND configurations.

- Press soft-button [Menu] till you find the [Features] item.
- Enter [Features] item till you find the [DND] item.
- Enter [DND] item till you find [DND item.
- Press left/right navigator key to change the DND mode or DND state on specific line. When done, press [Save] button to save the changes.

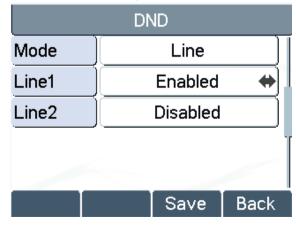


Figure 47 - Configure DND on Line





6.7 **Auto-Answering**

User may enable auto-answering feature on the device and any incoming call will be automatically answered (not including call waiting). The auto-answering can be enabled on line basis.

When the device is in the default standby mode, if user wishes to enable or disable auto-answering on a specific line or change the auto-answering delay time, user could change the auto-answering configuration adopt following steps.

- Press soft-button [Menu] till you find the [Features] item.
- Enter [Features] item till you find the [Auto Answer] item.
- Enter [Auto Answer] item to change the auto-answering configuration on a specific line
- Press left/right navigator button to select the auto-answering option. When done, press [Save] button to save the changes.
- The default auto-answering delay is 5 seconds.

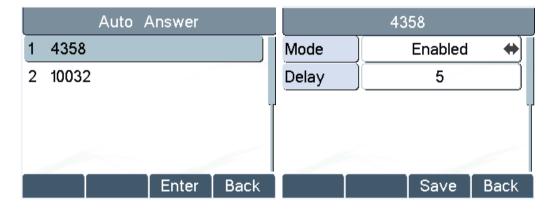


Figure 59 - Configure Auto-answering on Line1







Figure 48 - Auto-answering Enabled on Line1

6.8 Call Forward

Call forward is also known as 'Call Divert' which is to divert the incoming call to a specific number based on the conditions and configurations. User can configure the call forward settings of each line.

There are three types,

- Unconditional Call Forward Forward any incoming call to the configured number.
- Call Forward on Busy When user is busy, the incoming call will be forwarded to the configured number.
- Call Forward on No Answer When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.

To configure call forward, when the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Features] item.
- Enter [Features] item till you find the [Call Forward] item.
- Press [Call Forward] button to open call forward configuration screen, select the line to be configured with up/down navigator keys.
- Press [Enter] button to edit the call forward settings.
- Select the call forward type with up/down navigator keys. Click [Enter] button to configure the call forward number and delay, if applicable.
- Enable or Disable call forward with left/right navigator buttons against specific lines and types.
- If select 'Enable', browse the setting parameters with up/down navigator keys and enter required information. When done, press [Save] / [OK] button to save the changes.







Figure 49 - Select Line for Call Forward Configuration

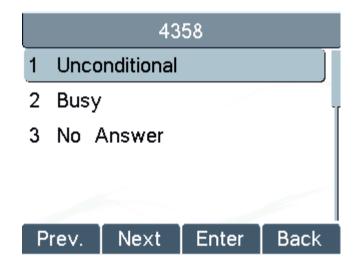


Figure 50 - Select Call Forward Type





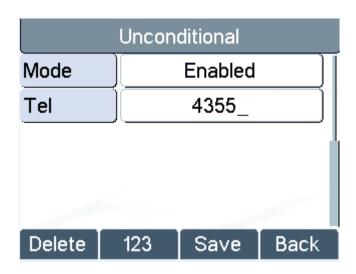


Figure 51 - Activate Call Forward and configure Call Forward Number

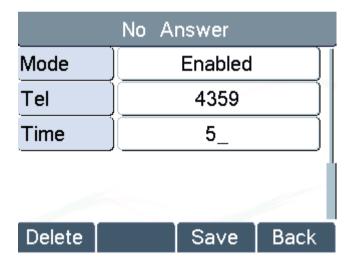


Figure 52 - Set Delay Time for Call Forward on No Answer

6.9 DSS LCD Configuration

There are 6 DSS keys corresponded to the LCD display to provide dynamic Line/DSS/BLF functions up to five pages at virtualized total 30 DSS keys. User may configure/customize each DSS key in each page.

User can enter the DSS Key page configuration by long-press DSS page key, where user can Delete/Add page(s) for the DSS LCD. Besides, user can modify DDS key configuration by long-press each one.





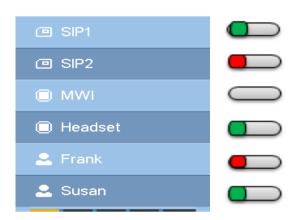


Figure 535 - DSS LCD Page Configuration Screen

The phone provide DSS Key configuration, such as,

- Memory Key
 - Speed Dial/Intercom/BLF/Presence/Call Park/Call Forward(For someone)
- ◆ Line
- ♦ Key Event
 - MWI/DND/Hold/Transfer/Phonebook/Redial/Pickup/Call Forward(for entitle line)
- ◆ DTMF
- ◆ URL
- BLF List Key
- Multicast

BLF/Intercom/Speed Dial number can match contact intelligently as the label, which is stored in phonebook, and DSS LCD will display the contact name rather than extension number. Moreover, user also can add the user-defined title for the DSS Keys, which is configured as Memory Key / Line / URL / Multicast .

NOTICE! User-defined title is limited to 15 characters at most.

More detailed information *refers to* 错误!未找到引用源。 错误!未找到引用源。 and 错误!未找到引用源。 *错误!未找到引用源。*.





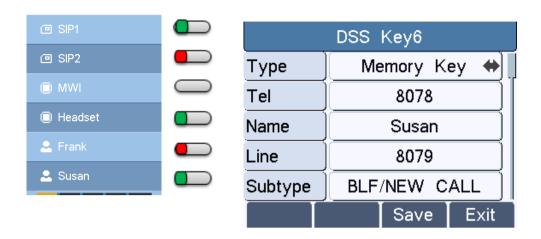


Figure 546 - DSS LCD Screen Configuration





7 Phone Settings

7.1 Adjust Audio Volume

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Settings] item.
- Enter [Settings] item till you find the [Basic Settings] item.
- Enter [Basic Settings] item till you find [Voice Volume] item.
- Enter [Voice Volume] item and you will find [Handset Volume], [Handsfree Volume] and [Headset Volume] item.
- Enter [Handset Volume] or [Handsfree Volume] or [Headset Volume] item, press Left / Right navigator keys to adjust the audio volume for different mode.
- Save the adjustment by pressing [OK] or [Save] when done.

7.2 Set Ring Tone Volume and Type

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Settings] item.
- Enter [Settings] item till you find the [Basic Settings] item.
- Enter [Basic Settings] item till you find [Ring Settings] item.
- Enter [Ring Settings] item and you will find [Ring Volume] and [Ring Type] item.
 - Enter [Ring Volume] item and you find [Headset Volume] and [Handsfree Volume] item.
 - ◆ Enter [Headset Volume] or [Handsfree Volume] item, press left / right navigator keys to adjust the ring volume.
 - ◆ Save the adjustment by pressing [OK] when done.
 - Enter [Ring Type] item, press left / right navigator keys to change the ring type.
 - Save the adjustment by pressing [OK] when done.

7.3 Adjust LCD Contrast

- Press soft-button [Menu] till you find the [Settings] item.
- Enter [Settings] item till you find the [Basic Settings] item.
- Enter [Basic Settings] item till you find [Screen Settings] item.





- Enter [Basic Settings] item ill you find [Contrast] item.
- Enter [Contrast] item, press left / right navigator keys to adjust the LCD contrast.
- Save the adjustment by pressing [OK] or [Save] when done.

7.4 Set Device Time/Date

- Press soft-button [Menu] till you find the [Settings] item.
- Enter [Settings] item till you find the [Basic Settings] item.
- Enter [Basic Settings] item till you find [Time & Date] item.
- Enter [Time & Date] item, use up/down navigator keys to edit the time/date parameters and save the settings by pressing [OK] or [Save] when done.

Table 1 - Time Settings Parameters

Parameters	Description
Mode	Auto/Manual
	Auto: Enable network time synchronization via
	SNTP protocol, default enabled.
	Manual: User can modify data manually.
SNTP Server	SNTP server address
Time zone	Select the time zone
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time
Time format	Select time format from one of the followings:
	■ 1 JAN, MON
	■ 1 January, Monday
	■ JAN 1, MON
	■ January 1, Monday
	■ MON, 1 JAN
	■ Monday, 1 January
	■ MON, JAN 1
	■ Monday, January 1
	■ DD-MM-YY
	■ DD-MM-YYYY





	■ MM-DD-YY
	■ MM-DD-YYYY
	■ YY-MM-DD
	■ YYYY-MM-DD
Date(Only Mode=Manual)	Edit the date of the device in the format of
	yyyy/mm/dd.
Time(Only Mode=Manual)	Edit the time of the device in the format of
	hh:mm:ss. Hh=00~23, mm=00~59, ss=00~59

7.5 Set Device Language

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Settings] item.
- Enter [Settings] item till you find the [Basic Settings] item.
- Enter [Basic Settings] item till you find [Language] item.
- User can change the language by using the navigation keys.

7.6 Reboot the Device

When the device is in the default standby mode.

- Press soft-button [Menu] till you find the [Reboot System] item.
- Press [OK] or [Enter] button, a warning message "Reboot Now?" will be prompt to user.
- Press [Yes] or [OK] button to execute the reset command, or [No] to exit.

7.7 Reset to Factory Default

- Press soft-button [Menu] till you find the [Settings] item, and press [OK] or [Enter] button.
- Enter [Advanced Settings] item, then input the device PIN (Default PIN is 123) to enter the interface.
- Enter [Reset to Default] item, then a warning message "Factory Reset, Continues?" will be prompt to user.
- Press [Yes] or [OK] button to execute the reset command, or [No] to exit.





8 Web Portal

8.1 Web Portal Authentication

User can log in onto the device web portal to manage the device or user's profile. User must provide correct username and password to be able to log in.

8.2 Web Call

Besides making and receiving phone calls by operating the device directly, user could also making and receiving phone calls by operating the controls in the web portal.

The web call is particularly suitable for users who use headphone. User can dial out a number by click the [Dial] button on top of the title of the web portal page, or click a contact in the phonebook, or click a number in the call logs, to make phone call and press [Answer] button to answer incoming call. When call ended, user can click [Hang up] button to end the call. All these operation can be done from the web portal without touching the phone.

NOTICE! The web call is limited to make a single call. To make or answer a second call is not allowed.



Figure 557 - Web Call Controls





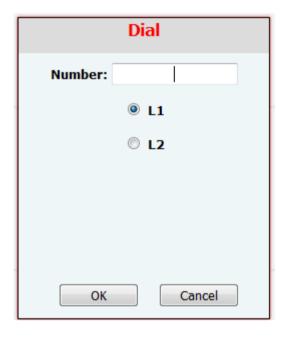


Figure 568 - Web Call, Entering Number and Select Line

8.3 SYSTEM / Information

User can get the system information of the device in this page including,

- Model
- Hardware Version
- Software Version
- Uptime
- Last uptime
- MEMInfo

And also summarization of network status,

- Network Mode
- MAC
- IP
- Subnet Mask
- Default Gateway

Besides, summarization of SIP account status,

- SIP User
- SIP account status (Registered / Unapplied / Trying / Timeout)





8.4 SYSTEM / Account

User may change his/her web authentication password in this page.

For users with Administrators privilege, the user can also manage user accounts by adding or

deleting user account and assign privilege and password to new account.

There are two types of user privilege, Administrators and Users. If a user account is created as

Users privilege, this account will have limited accessibility to the device and cannot change some

device settings.

The user account can be used to operate the device or access the device web portal by login to the

device or its web. User should log in to device web portal with his/her username and web password.

NOTICE! The device is shipped with a default Administrators user account. The username

and password for the default accout is 'admin' which has been printed on the brand and

model lable at the bottom side of the device.

8.5 SYSTEM / Configurations

Users with Administrators privilege can export or import the device configuration in this page and

reset the device to factory default.

8.6 SYSTEM / Upgrade

The device supports online upgrade by periodically checking the software release version on the

cloud server. Meanwhile, user can download the software and upgrade the device manually when

there is trouble for the device to connect to the cloud server.

8.7 SYSTEM / Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the

devices in mass volume. For the detail of Auto Provision, please read "X4 Administration Guide"

Parvilla Farvilla



8.8 SYSTEM / Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to **10 Trouble Shooting** for more detail.

Besides, the device also provided the screenshot feature to user, including mail screen and sub-screen.

8.9 NETWORK / Basic

User can configure the network connection type and parameters in this page.

8.10 NETWORK / Advanced

The network advanced settings is often configured by IT manager to enhance the quality of service of the device. The configurations are addressed in "X4 Administration Guide"

8.11 NETWORK / VPN

User may configure a VPN connection in this page. Please refer to 9.1 VPN for more detail.

8.12 LINES / SIP

The service of the line is configured in this page, choose the sip line to configured (SIP 1 - SIP 2). Click the dropdown arrow to adjust configuration accounting on each line.

Table 2 - SIP Settings for Lines on Web

Parameters	Description
Basic Settings	





Line Status	Display the current line status at page loading.
	To get the up to date line status, user has to
	refresh the page manually.
Username	Enter the username of the service account.
Display Name	Enter the display name to be sent in a call
	request.
Authentication Name	Enter the authentication name of the service
	account
Authentication Password	Enter the authentication password of the service
	account
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy
	server
SIP Proxy Server Port	Enter the SIP proxy server port, default is 5060
Outbound Proxy Address	Enter the IP or FQDN address of outbound
	proxy server provided by the service provider
Outbound Proxy Port	Enter the outbound proxy port, default is 5060
Realm	Enter the SIP domain if requested by the service
	provider
Activate	Whether the service of the line should be
	activated
Codec Settings	Set the priority and availability of the codecs by
	adding or remove them from the list.
Advanced Settings	
Call Forward Unconditional	Enable unconditional call forward, all incoming
	calls will be forwarded to the number specified in
	the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is
	busy, any incoming call will be forwarded to the
	number specified in the next field
Call Forward Number for Busy	Set the number of call forward on busy
Call Forward on No Answer	Enable call forward on no answer, when an
	incoming call is not answered within the
	configured delay time, the call will be forwarded





	to the number specified in the next field
Call Forward Number for No Answer	Set the number of call forward on no answer
Call Forward Delay for No Answer	Set the delay time of not answered call before
F. J. J. W.	being forwarded
Enable Hotline	Enable hotline configuration, the device will dial
	to the specific number immediately at audio
	channel opened by off-hook handset or turn on
	hands-free speaker or headphone
Hotline Number	Set the hotline dialing number
Hotline Delay	Set the delay for hotline before the system
	automatically dialed it
Enable Auto Answering	Enable auto-answering, the incoming calls will
	be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system
	automatically answered it
Subscribe For Voice Message	Enable the device to subscribe a voice message
	waiting notification, if enabled, the device will
	receive notification from the server if there is
	voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification
	subscription
Enable DND	Enable Do-not-disturb, any incoming call to this
	line will be rejected automatically
Blocking Anonymous Call	Reject any incoming call without presenting
	caller ID
Use 182 Response for Call waiting	Set the device to use 182 response code at call
· · · · · · · · · · · · · · · · · · ·	waiting response
Anonymous Call Standard	Set the standard to be used for anonymous
Dial Without Registered	Set call out by proxy without registration
User Agent	Set the user agent, the default is Model with
3	Software Version.
Use Quote in Display Name	Whether to add quote in display name
Ring Type	Set the ring tone type for the line
Timing Type	Solutioning tone type for the line





Conference Type	Set the type of call conference, Local=set up call
Comorcinos Typo	conference by the device itself, maximum
	supports two remote parties, Server=set up call
	conference by dialing to a conference room on
	the server
Server Conference Number	Set the conference room number when
	conference type is set to be Server
Transfer Timeout	Set the timeout of call transfer process
Enable Long Contact	Allow more parameters in contact field per RFC
	3840
Enable Missed Call Log	If enabled, the phone will save missed calls into
	the call history record.
Response Single Codec	If setting enabled, the device will use single
	codec in response to an incoming call request
Use Feature Code	When this setting is enabled, the features in this
	section will not be handled by the device itself
	but by the server instead. In order to control the
	enabling of the features, the device will send
	feature code to the server by dialing the number
	specified in each feature code field.
Enable DND	Set the feature code to dial to the server
Disable DND	Set the feature code to dial to the server
Enable Call Forward Unconditional	Set the feature code to dial to the server
Disable Call Forward Unconditional	Set the feature code to dial to the server
Enable Call Forward on Busy	Set the feature code to dial to the server
Disable Call Forward on Busy	Set the feature code to dial to the server
Enable Call Forward on No Answer	Set the feature code to dial to the server
Disable Call Forward on No Answer	Set the feature code to dial to the server
Enable Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Specific Server Type	
	Set the line to collaborate with specific server
	Set the line to collaborate with specific server type, this is to be address more in "X4
	·





Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Convert URI	Convert not digit and alphabet characters to
	%hh hex code
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10'
	and '11'
Transport Protocol	Set the line to use TCP or UDP for SIP
	transmission
SIP Version	Set the SIP version
Caller ID Header	Set the Caller ID Header
Enable Strict Proxy	Enables the use of strict routing. When the phone
	receives packets from the server, it will use the
	source IP address, not the address in via field.
Enable user=phone	Sets user=phone in SIP messages.
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
Enable BLF List	Enable/Disable BLF List
Enable DNS SRV	Set the line to use DNS SRV which will resolve
	the FQDN in proxy server into a service list
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION
	packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Sync Clock Time	Time Sycn with server
Enable Session Timer	Set the line to enable call ending by session
	timer refreshment. The call session will be
	ended if there is not new session timer event
	update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
Keep Authentication	Keep the authentication parameters from
	previous authentication
Auto TCP	Using TCP protocol to guarantee usability of
	transport for SIP messages above 1500 bytes





Enable Feature Sync	Feature Sycn with server
Enable GRUU	Support Globally Routable User-Agent URI
	(GRUU)
BLF Server	The registered server will receive the
	subscription package from ordinary application
	of BLF phone.
	Please enter the BLF server, if the sever does
	not support subscription package, the registered
	server and subscription server will be separated.
BLF List Number	BLF List allows one BLF key to monitor the
	status of a group. Multiple BLF lists are
	supported.
SIP Encryption	Enable SIP encryption such that SIP
	transmission will be encrypted
SIP Encryption Key	Set the pass phrase for SIP encryption
RTP Encryption	Enable RTP encryption such that RTP
	transmission will be encrypted
RTP Encryption Key	Set the pass phrase for RTP encryption

8.13 LINES / Dial Peer

This functionality offers you more flexible dial rule, you can refer to the following content to know how to use this dial rule.

Table 3 - Dial Peer Settings for Lines on Web

Parameters	Description
Phone number	There are two types of matching: Full Matching
	or Prefix Matching. In Full matching, the entire
	phone number is entered and then mapped per
	the Dial Peer rules.
	In prefix matching, only part of the number is
	entered followed by T. The mapping with then
	take place whenever these digits are dialed.
	Prefix mode supports a maximum of 30 digits.
Note: Two different special characters are used.	





x Matches any single digit that is	s alalea.
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■ [] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.

Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for
	SIP.
Alias	Set the Alias. This is the text to be added,
	replaced or deleted. It is an optional item.

Note: There are four types of aliases.

- all: xxx xxx will replace the phone number.
- add: xxx xxx will be dialed before any phone number.
- del The characters will be deleted from the phone number.
- rep: xxx xxx will be substituted for the specified characters.

Suffix	Characters to be added at the end of the phone
	number. It is an optional item.
Delete Length	Set the number of characters to be deleted. For
	example, if this is set to 3, the phone will delete
	the first 3 digits of the phone number. It is an
	optional item.

Examples of different alias application

This feature allows the user to create rules to make dialing easier. There are several different options for dial rules. The examples below will show how it works.

Example 1: Global Substitution

It seems like a shortcut to dial out. When user dial "32", the dialed number will be replaced of "833333". But if user dials "322", the device will still send "322" rather than "8333332". The repleacement rules should be matched globally.





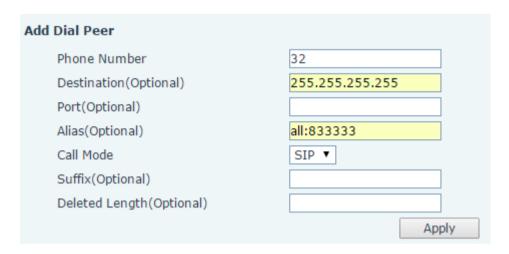


Figure 69 - Global Substitution Configuration

Example 2: Local Substitution

To dial a long distance call to Beijing requires dialing area code 010 before the local phone number. Using this feature 1 can be substituted for 010. For example, to call 62213123 would only require dialing 162213123 instead of 01062213123.

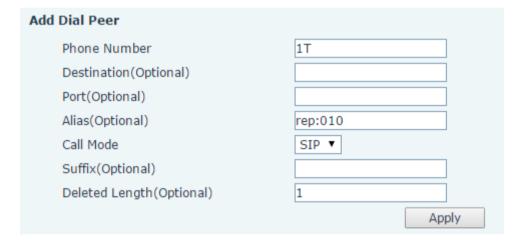


Figure 70 - Local Substitution Configuration

Example 3: Add Prefixes

If the dialed number starts with the fixed prefix number, the phone will send out your dialed phone number adding prefix number automatically.

For example, when users dial "9312", the device will send out "0079312".

Suzhou Tel: +86-512-6592-0605 SEA Tel: +60-3-512-21997







Figure 71 - Add Prefixes Configuration

Example 4: Add Suffixes

If the dialed number ends with the fixed suffix number, the phone will send out your dialed phone number adding suffix number automatically.

For example, when users dial "1383322", the device will send out "13833220088".



Figure 57 - Add Suffixes Configuration

Example 5: Deletion

If the dialed number ends with the fixed prefix number, the phone will send out your dialed phone number deleting prefix number automatically.

For example, when users dial "98322", the device will send out "8322".

Suzhou Tel: +86-512-6592-0605 SEA Tel: +60-3-512-21997





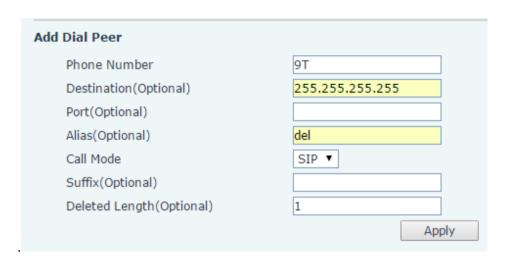


Figure 58 - Deletion Configuration

8.14 LINES / Dial Plan

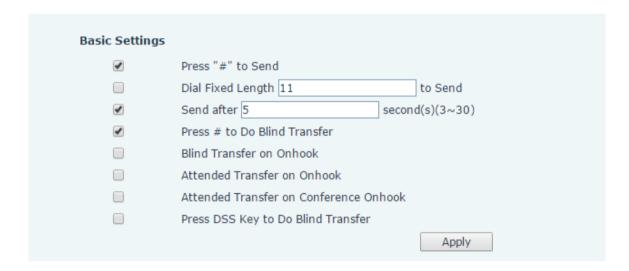


Figure 59 - Dial Plan Configuration

The device supports 7 dialing modes:

- Press # to Send Dial the desired number, and press # to send it to the server.
- Dial Fixed Length Configure the fixed length to dial out
- Send after seconds Number will be sent to the server after the specified time.
- Press # to Do Blind Transfer Press # after entering the target number for the transfer. The phone will transfer the current call to the third party.
- Blind Transfer on Onhook Hang up after entering the target number for the transfer. The phone will transfer the current call to the third party.





- Attended Transfer on Onhook Hang up after the third party answers. The phone will transfer the current call to the third party.
- Attended Transfer on Conference Onhook Hang up during a 3-way conference call, the other two ways will make a call.
- Press DSS Key to Do Blind Transfer When user is in the 'XFER' screen, user can fulfill Blind Transfer by pressing DSS Key.

8.15 LINES / Global Settings

Configure global settings for lines,

Table 4- Global Settings for Lines on Web

Parameters	Description
SIP Settings	
Local SIP Port	Set the local SIP port used to send/receive SIP
	messages.
Registration Failure Retry Interval	Set the retry interval of SIP REGISTRATION
	when registration failed.
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
Binding Period	Set the STUN binding period which can be used
	to keep the NAT pinhole opened.
SIP Waiting Time	Set the timeout of STUN binding before sending
	SIP messages
TLS Certification File	Upload or delete the TLS certification file used
	for encrypted SIP transmission.

8.16 PHONE / Features

Configure the phone features,

Common Settings





Table 5- Common Phone Feature Settings on Web

Parameters	Description
Enable Phone DND	Configure the Phone DND
	If enable Phone DND, the phone rejects any
	incoming call, the caller will automatically
	prompt hang up.
Ban Outgoing	If you select Ban Outgoing to enable it, and you
	cannot dial out any number.
Enable Call Transfer	Enable Call Transfer by selecting it.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 3-Way Conference	Enable 3-way conference by selecting it
Enable Auto Handdown	The phone will hang up and return to the idle
	automatically at hands-free mode
Auto Handdown Time	Specify Auto handdown time, the phone will
	hang up and return to the idle automatically after
	Auto Hand down time at hands-free mode, and
	play dial tone Auto handdown time at handset
	mode
Enable Auto Redial	Enable Auto Redial by selecting it, then the
	phone reminds whether redial, when the dialed
	line is busy or rejects
Auto Redial Interval	Configure the Auto redial interval
Auto Redial Times	Configure the Auto redial times
Enable Call Waiting	Enable this setting to allow user to take second
	incoming call during an established call. Default
	enabled.
Enable Call Waiting Tone	Turn off this feature, and you will not hear a
	'beep' sound in talking mode when there is
	another incoming call
Enable Call Completion	Enable Call Completion by selecting it, If the
	dialed line is busy, the sip server will inspect the
	dialed line status at intervals. If the dialed line is
	idle, the server will send notify message to
	inform the caller whether redial.





audio channel automatically. Enable the feature, user enter the number without opening audio channel. Hide DTMF Configure the hide DTMF mode Auto Headset Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically. Ring From Headset Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix, will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	[Ta
Enable the feature, user enter the number without opening audio channel. Hide DTMF Configure the hide DTMF mode Auto Headset Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically. Ring From Headset Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call during a call. If the current call is intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length	Enable Pre-Dial	Disable this feature, user enter number will open
Hide DTMF Configure the hide DTMF mode Auto Headset Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically. Ring From Headset Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		
Hide DTMF Configure the hide DTMF mode Auto Headset Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically. Ring From Headset Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call during a call. If the current call is intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		Enable the feature, user enter the number
Enable Intercom Mute Enable Intercom Barge Enable Intercom Barge Enable Intercom Barge Enable Intercom Call Number Enable Intercom Call Number Enable Intercom Darge Enable Intercom Barge Enable Intercom Enable Intercom Call Uring a call. If the eurrent call is intercom call, the phone auto answers the intercom call, the phone will reject the second intercom call Value Enable Enable Intercom Enable		without opening audio channel.
phone, user press 'answer' key or line key to answer a call with the headset automatically. Ring From Headset Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable mute mode during the intercom call Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Hide DTMF	Configure the hide DTMF mode
answer a call with the headset automatically. Ring From Headset Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Auto Headset	Enable this feature, headset plugged in the
Enable Ring From Handset by selecting it, the phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		phone, user press 'answer' key or line key to
phone plays ring tone from handset. Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call, the phone will reject the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		answer a call with the headset automatically.
Enable Intercom When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable mute mode during the intercom call If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length	Ring From Headset	Enable Ring From Handset by selecting it, the
the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		phone plays ring tone from handset.
Alert-Info instruction to automatically answer the call after specific delay. Enable Intercom Mute Enable mute mode during the intercom call If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Enable Intercom	When intercom is enabled, the device will accept
Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call, the phone will reject the second intercom call. Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		the incoming call request with a SIP header of
Enable Intercom Mute Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call. Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		Alert-Info instruction to automatically answer the
Enable Intercom Tone If the incoming call is intercom call, the phone plays the intercom tone Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		call after specific delay.
Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Barge Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call. Number Despite the keyboard is locked, you can dial the emergency call number. Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Enable Intercom Tone	If the incoming call is intercom call, the phone
auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		plays the intercom tone
the current call is intercom call, the phone will reject the second intercom call Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone
Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		auto answers the intercom call during a call. If
Emergency Call Number Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		the current call is intercom call, the phone will
the keyboard is locked, you can dial the emergency call number Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		reject the second intercom call
Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Emergency Call Number	Configure the Emergency Call Number. Despite
Enable Password Dial Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		the keyboard is locked, you can dial the
number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		emergency call number
prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length	Enable Password Dial	Enable Password Dial by selecting it, When
password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		number entered is beginning with the password
the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		prefix, the following N numbers after the
Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		password prefix will be hidden as *, N stand for
prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		the value which you enter in the Password
you enter the number 34567, it will display 3**67 on the phone. Encryption Number Length Configure the Encryption Number length		Length field. For example: you set the password
on the phone. Encryption Number Length Configure the Encryption Number length		prefix is 3, enter the Password Length is 2, then
Encryption Number Length Configure the Encryption Number length		you enter the number 34567, it will display 3**67
		on the phone.
Password Dial Prefix Configure the prefix of the password call	Encryption Number Length	Configure the Encryption Number length
1 J	Password Dial Prefix	Configure the prefix of the password call





	number
Restrict Active URI Source IP	Set the device to accept Active URI command
	from specific IP address. NOTICE! This feature
	is usually used for device management and
	will be described in "X4 Administration
	Guide"
Push XML Server	Configure the Push XML Server, when phone
	receives request, it will determine whether to
	display corresponding content on the phone
	which sent by the specified server or not.
Allow IP Call	If enabled, user can dial out with IP address
Enable Multi Line	Enable phone to make calls for 10 lines max, or
	disable for 2 lines max.
Enable Default Line	If enabled, user can assign default SIP line for
	dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as
	default automatically
DND Response Code	Set the SIP response code on call rejection on
	DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Play Talking DTMF Tone	Play DTMF tone on the device when user
	pressed a phone digits during taking, default
	enabled.
Play Dialing DTMF Tone	Play DTMF tone on the device when user
	pressed a phone digits at dialing, default
	enabled.
Caller ID Display Priority	Change caller ID display priority. The default
	priority is "Phonebook" > "SIP Display Name" >
	"SIP URI". User may select one of the options to
	change the desired caller ID display priority.
Display Num With Name	Allow user to determine the caller-id display
	method.
	If it is checked, the caller-id will display number





with name.
If the value is unchecked, the caller-id will abide
by CID Priority.

Action URL

NOTICE! Action URL is used for device event submitting with IPPBX system. The detail is addressed in the "X4 Administration Guide"

Restrict Outgoing Call

The user with Administrators privilege can set the rule to restrict some numbers from dialing out. This setting is device-wide and applies to every user of the device.

User can add restricted number by entering the number in the edit box and click "Add" button. To remove a number from the restriction list, select the number from the dropdown box and click "Delete" button to remove it.

8.17 PHONE / Audio

Change the audio settings,

Table 6- Audio Settings on Web

Parameters	Description
First Codec	The first preferential DSP
	codec:G.711A/U,G.722,G.723,G.729,G.726-32,
	ILBC,AMR,AMR-WB
Second Codec	The second preferential DSP codec:
	G.711A/U,G.722,G.723,G.729,G.726-32,
	ILBC,AMR,AMR-WB,NONE
Third Codec	The third preferential DSP codec:
	G.711A/U,G.722,G.723,G.729,G.726-32 ,
	ILBC,AMR,AMR-WB,NONE
Fourth Codec	The forth preferential DSP codec:





	G.711A/U,G.722,G.723,G.729,G.726-32,
	ILBC,AMR,AMR-WB,NONE
Fifth Codec	The fifth preferential DSP codec:
	G.711A/U,G.722,G.723,G.729,G.726-32,
	ILBC,AMR,AMR-WB,NONE
Sixth Codec	The sixth preferential DSP codec:
	G.711A/U,G.722,G.723,G.729,G.726-32,
	ILBC,AMR,AMR-WB,NONE
Onhook Time	Configure the least reflection time of Hand
	down, the default is 200ms.
Tone Standard	Set the country standard of call progress tones,
	including dial tone, busy tone, ring-back tone,
	etc.
Default Ring Type	Set the default ring type. If the caller ID of an
	incoming call was not configured with specific
	ring type, the default ring will be used.
Handset Volume	Set the Handset volume, the value must be 1~9
Headset Volume	Set the Headset volume, the value must be 1~9
Headset Ring Volume	Set the ring volume in the headset, the value
	must be 1~9
Speakerphone Volume	Set the speakerphone volume, the value must
	be 1~9
Speakerphone Ring Volume	Set the ring volume in the speakerphone, the
	value must be 1~9
Headset Volume Offset	This is to adjust the base volume of the headset.
	Please note when set the volume at the
	maximum level it may create noise and
	decrease the echo canceller.
Headset Mic Offset	This is to adjust the base volume of the headset
	Mic.
G.729AB Payload Length	Set G729 Payload Length.
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available
G.722 Timestamps	160/20ms or 320/20ms is available
DTMF Payload Type	Enter the DTMF payload type, the value must be
1	





	96~127.
Enable VAD	Enable Voice Activity Detection. When enabled,
	the device will suppress the audio transmission
	with artificial comfort noise signal to save the
	bandwidth.
Enable MWI Tone	The phone will play MWI tone when a new MWI
	Comes
Auto Answer By Headset	When this item is checked, the device will
	auto-answer phone calls by headset if the
	auto-answer or intercom is enabled.

8.18 PHONE / MCAST

This feature allows user to make some kind of broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the phone, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address(es) without involving SIP signaling. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address(es) without involving SIP signaling. You can specify up to 10 multicast listening addresses.

Table 7 - MCAST Parameters on Web

Parameters	Description
Normal Call Priority	Define the priority of the active call, 1 is the
	highest priority, 10 is the lowest.
Enable Page Priority	The voice call in progress shall take precedence
	over all incoming paging calls.
Name	Listened multicast server name
Host:port	Listened multicast server's multicast IP address
	and port.

8.19 PHONE / Time/Date

User can configure the device time settings in this page.





Table 8- Time/Date Setting Parameters on Web

Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
Secondary Time Server	Set secondary time server address, when
	primary server is not reachable, the device will
	try to connect to secondary time server to get
	time synchronization.
Timezone	Select the time zone
Resync Period	Time of re-synchronization with time server
12-Hour Clock	Set the time display in 12-hour mode
Date Format	Select the time/date display format
Daylight Saving Time Settings	
Location	Select the user's time zone specific area
DST Set Type	Select automatic DST according to the preset
	rules of DST, or the manually input rules
Offset	The DST offset time
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour

PHONE / Advanced 8.20

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Contrast





- Backlight Time
- LCD Menu Password Settings.

The password is 123 by default.

- Keyboard Lock Settings.
- Configure Greeting Words

The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to 16 characters. The default chars are 'VOIP PHONE'.

8.21 PHONEBOOK / Contacts

User can add, delete, or edit contacts in the phonebook in this page. User can browse the phonebook and sorting it by name, phones, or filter them out by group.

To add a new contact, user should enter contact's information and press "Add" button to add it.

To edit a contact, click on the checkbox in front of the contact, the contact information will be copied to the contact edit boxes, press "Modify" button after finished editing.

To delete one or multiple contacts, check on the checkbox in front of the contacts wished to be deleted and click the "Delete" button, or click the "Clear" button with selecting any contacts to clear the phonebook.

User can also add multiple contacts into a group by selecting the group in the dropdown options in front of "Add to Group" button at the bottom of the contact list, selecting contacts with checkbox and click "Add to Group" to add selected contacts into the group.

Similarly, user can select multiple users and add them into blacklist by click "Add to Blacklist" button.

8.22 PHONEBOOK / Cloud Phonebook

Cloud Phonebook

User may configure up to 8 cloud phonebooks. Each cloud phonebook must be configured with an URL where an XML phonebook is stored. The URL may be based on HTTP/HTTPs or FTP protocol with or without authentication. If authentication is required, user must configure the username and password.

support@fanvil.com

Beijing Tel:+86-10-5753-6809

To configure a cloud phonebook, the following information should be entered,





Phonebook name (must)

Phonebook URL (must)

Access username (optional)

Access password (optional)

NOTICE! In regard of creating a cloud phonebook and setting up a cloud phonebook server, please refer to "X4 Administration Guide".

LDAP Settings

The cloud phonebook allows user to retrieve contact list from a LDAP Server through LDAP protocols.

User must configure the LDAP Server information and Search Base to be able to use it on the device. If the LDAP server requests an authentication, user should also provide username and password.

To configure a LDAP phonebook, the following information should be entered,

Display Title (must)

LDAP Server Address (must)

LDAP Server Port (must)

Search Base (must)

Access username (optional)

Access password (optional)

NOTICE! In regard of creating a LDAP phonebook and setting up a LDAP phonebook server, please refer to "X4 Administration Guide".

8.23 PHONEBOOK / Blacklist

By adding a number into the blacklist, user will no longer receive phone call from that number and it will be rejected automatically by the device until user delete it from the blacklist.

User can add specific number to be blocked, or a prefix where any numbers matched the prefix will all be blocked.

8.24 PHONEBOOK / Advanced

User may export current phonebook in xml, csv, or vcf format file and save it locally on a computer.





User can also import contacts into phonebook from an xml, csv, or vcf file.

NOTICE! If user repeatedly imports a same phonebook, it will create duplicated contacts in user's phonebook.

User can add new group in this page or delete an existing one. Deleting a contact group will not delete the contacts in that group.

8.25 CALL LOGS

User can browse complete call logs in this page, order the call logs by time, caller ID, contact name, duration, or line, and can also filter the call logs by the call log types, in, out, missed, or all.

User can save a call log into his/her phonebook or add it to the blacklist.

User can also make web call by click on the number of a call log.

8.26 FUNCTION KEY / Function Key

The device provides 30 user-define DSS Keys at most. User may configure/customize each DSS key in this webpage.

Table 9 - DSS Key Setting Parameters on Web

Parameters	Description
Memory Key	BLF(NEW CALL/BXFE /AXFER): It is used to
	prompt user the state of the subscribe
	extension, and it can also pick up the subscribed
	number, which help user monitor the state of
	subscribe extension (idle, ringing, a call). There
	are 3 types for one-touch BLF transfer method.
	p.s. User should enter the pick-up number for
	specific BLF key to fulfill the pick-up operation.
	Presence: Compared to BLF, the Presence is





	also able to view whether the user is online.
	Note: You cannot subscribe the same number
	for BLF and Presence at the same time
	Speed Dial: You can call the number directly
	which you set. This feature is convenient for you
	to dial the number which you frequently dialed.
	Intercom: This feature allows the operator or
	the secretary to connect the phone quickly; it is
	widely used in office environments.
Line	It can be configured as a Line Key. User is able
	to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to
	trigger.
	For example: MWI / DND / Release / Headset /
	Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio
	codec. User presses the key to initiate the
	multicast.

8.27 FUNCTION KEY / Softkey

User can configure different functions in different screens for each softkey.





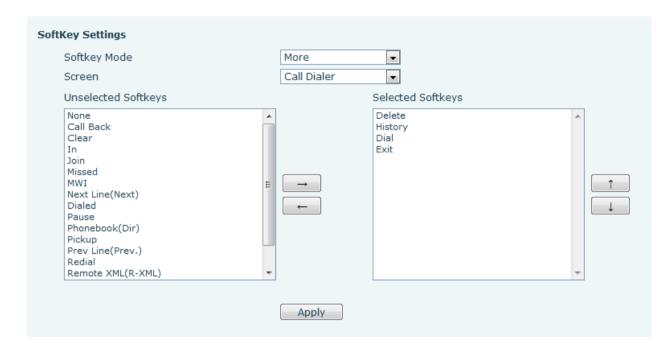


Figure 60 - Softkey Configuration





9 Advanced Features

9.1 VPN

Virtual Private Network (VPN) is a technology to allow device to create a tunneling connection to a server and becomes part of the server's network. The network transmission of the device may be routed through the VPN server.

For some users, especially enterprise users, a VPN connection might be required to be established before activate a line registration. The device supports two VPN modes, Layer 2 Transportation Protocol (L2TP) and OpenVPN.

The VPN connection must be configured and started (or stopped) from the device web portal.

9.1.1 L2TP

NOTICE! The device only supports non-encrypted basic authentication and non-encrypted data tunneling. For users who need data encryption, please use OpenVPN instead.

To establish a L2TP connection, users should log in to the device web portal, open page [Network] -> [VPN]. In VPN Mode, check the "Enable VPN" option and select "L2TP", then fill in the L2TP server address, Authentication Username, and Authentication Password in the L2TP section. Press "Apply" then the device will try to connect to the L2TP server.

When the VPN connection established, the VPN IP Address should be displayed in the VPN status. There may be some delay of the connection establishment. User may need to refresh the page to update the status.

Once the VPN is configured, the device will try to connect to the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not established immediately, user may try to reboot the device and check if VPN connection established after reboot.





9.1.2 OpenVPN

To establish an OpenVPN connection, user should get the following authentication and configuration files from the OpenVPN hosting provider and name them as the following,

OpenVPN Configuration file: client.ovpn

CA Root Certification: ca.crt

Client Certification: client.crt
Client Key: client.key

User then upload these files to the device in the web page [Network] -> [VPN], Section OpenVPN Files. Then user should check "Enable VPN" and select "OpenVPN" in VPN Mode and click "Apply" to enable OpenVPN connection.

Same as L2TP connection, the connection will be established every time when system rebooted until user disable it manually.





10 Trouble Shooting

When the device does not work properly, users may try the following methods to recover the device or gather relative information and send an issue report to support.

10.1 Get Device System Information

Users may get the device system information by pressing [Settings] -> [Status]. The following basic information will be provided:

Mode

IΡ

Software Version

More...

User can select [More] item to get more information in detail.

10.2 Upgrade to the latest software

Manufacturer will keep publishing software update to fix bugs and improve device features. The device will check for new software release on manufacturer cloud server automatically and periodically.





10.3 Reboot Device

Users may reboot the device from soft-menu, [Menu] -> [Reboot System], and confirm the action by [Yes]. Or, simply remove the power supply and restore it again.

10.4 Reset Device to Factory Default

Reset Device to Factory Default will erase all user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

To perform a factory default reset, user should [Menu] -> [Settings] -> [Advanced settings], and then input the password to enter the interface. Then choose [Reset to Default] and press [Enter], and confirm the action by [Yes]. The device will be rebooted into a clean factory default state.

10.5 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page [System] -> [Tools] and click [Start] in "Network Packets Capture" section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate line or making phone calls and click [Stop] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file. User may examine the packets with a packet analyzer or send it to support.

10.6 Entering Post Mode and Recover System Image

WARNING! PLEASE AVOID UPDATING SYSTEM IMAGE FROM POST MODE UNLESS THE SYSTEM IMAGE IS DAMAGED.

If the device could not boot up and entered into POST MODE, it is usually because of system image damaged due to power failure during software upgrade. When this occurs, users may follow below steps to restore the system image.





- **Step 1.** Download the latest device software.
- **Step 2.** Setup a FTP server on a PC and put the downloaded software in the FTP repository. (Windows users can download free FTP server software such as WFTPD32 or 3CDaemon)
- Step 3. Configure the PC with fixed IP address as 192.168.10.10
- Step 4. Connect device network with the PC.
- Step 5. Telnet from PC to device: >telnet 192.168.10.1
- **Step 6.** When telnet connection established, it will run POST maintenance tools, please select '2' FTP update image, and fill in required information to start the image update.
- **Step 7.** Once update finished, please select '4' to reboot the device.





10.7 Common Trouble Cases

Table 10 - Trouble Cases

Trouble Case	Solution
Device could not boot up	1. The device is powered by external power supply via power
	adapter or PoE switch. Please use standard power adapter
	provided or PoE switch met with the specification requirements
	and check if device is well connected to power source.
	2. If you saw "POST MODE" on the device screen, the device
	system image has been damaged. Please refer to the
	instructions in "10.6 Entering Post Mode and Recover System
	m Image" to restore the system image.
Device could not register to	1. Please check if device is well connected to the network. The
a service provider	network Ethernet cable should be connected to the
	[Network] port NOT the 🔲 [PC] port. If the cable is not well
	connected to the network icon [WAN disconnected] will be
	flashing in the middle of the screen.
	2. Please check if the device has an IP address. Check the system
	information, if the IP displays "Negotiating", the device does
	not have an IP address. Please check if the network
	configurations is correct.
	3. If network connection is fine, please check again your line
	configurations. If all configurations are correct, please kindly
	contact your service provider to get support, or follow the
	instructions in "10.6 Network Packet Capture" to get the network
	packet capture of registration process and send it to support to
	analyze the issue.





No Audio or Poor Audio in	1. Please check if Handset is connected to the correct Handset
Handset	() port NOT Headphone () port.
	2. The network bandwidth and delay may be not suitable for audio
	call at the moment.
Poor Audio or Low Volume	1. There are two Headphone wire sequence in the market. Please
in Headphone	use the Headphone provided, or consult the wire sequence if
	you wish to use a third party headphone.
	2. The network bandwidth and delay may be not suitable for audio
	call at the moment.
Audio is chopping at	This is usually due to loud volume feedback from speaker to
far-end in Hands-free	microphone. Please lower down the speaker volume a little bit, the
speaker mode	chopping will be gone.





Appendix I - Icon Illustration

Table 4 - Keypad Icons

り	Redial
(4)	Handsfree (HF) speaker
û	Phone lock=Long-pressed Key(#)
Æ	Mute Microphone (During Call)
+	Volume Down/
-	Volume Up

Table 5 - Status Prompt and Notification Icons

\$	Call out
(2)	Call in
00	Call Hold
	Network Disconnected
	Keypad Locked
×	Missed calls
	SMS
2	New voice message waiting
DND	Do-Not-Disturb activated on Phone





6	Auto-answering activated	
es.	Call forward activated	
	Handsfree (HF) Mode	
\bigcirc	Headphone (HP) Mode	
C	Handset (HS) Mode	
验	Microphone Muted	
2aB	Mixed type input	
abc	Lower Case ALong-pressinghabets	
ABC	Upper Case ALong-pressinghabets	
123	Numeric Input	





Appendix II - Text Input from Keypad

Table 6 - Look-up Table of Characters

Mode	Text	Key	Characters Of
Icon	Mode	Button	Each Press
123	Numeric	1	1
ITCO		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*#(space)@,.:/?<>[]%! &\$~+-
		#	#
abc	Lower	1	+-*%/ @!:
abc	Case	2	abc
	Alphabets	3	def
		4	ghi
		5	jkl
		6	m n o
		7	pqrs
		8	t u v
		9	wxyz
		0	0
		*	*#(space)@,.:/?<>[]%! &\$~+-
		#	#





Anol	Upper	1	+-*%/ @!:	
ABC	Case	2	ABC	
	Alphabets	3	DEF	
		4	GHI	
		5	JKL	
		6	MNO	
		7	PQRS	
		8	TUV	
		9	WZYX	
		0	(space)	
		*	*#(space)@,.:/?<>[]%! &\$~+-	
		#	#	
2aB	Mixed	1	1+-*%/ @!:	
	type input	2	2 a b c A B C	
		3	3 d e f D E F	
		4	4 g h l G H l	
		5	5jkIJKL	
		6	6 m n o M N O	
		7	7pqrsPQRS	
		8	8 t u v T U V	
		9	9 w z y x W Z Y X	
		0	(space)	
		*	*#(space)@,::/?<>[]%! &\$~+-	
		#	#	





Appendix III – LED Definition

Table 7 - DSS KEY LED State

Туре	LED Light	State
Line Key	Off	Line inactive
	Green On	Line ready (Registered)
	Green Blinking	Dialing / Ringing / Call holding
BLF	Green On	Subscripted number is idle.
	Red On	Subscripted number is busy.
	Red Blinking	Subscripted number is dialing.
	Off	Subscripted number is unavailable
DND	Red On	Enable DND
	Off	Disable DND
MWI	Green On	New voice message waiting
	Off	No new voice message

