V100 VOIP Smart Phone

UserManual

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Guangdong Telepower Communication Technology Co., Ltd.

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Guangdong Telepower Communication Technology Co., Ltd.

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1. GetStarted

1.1 Overview

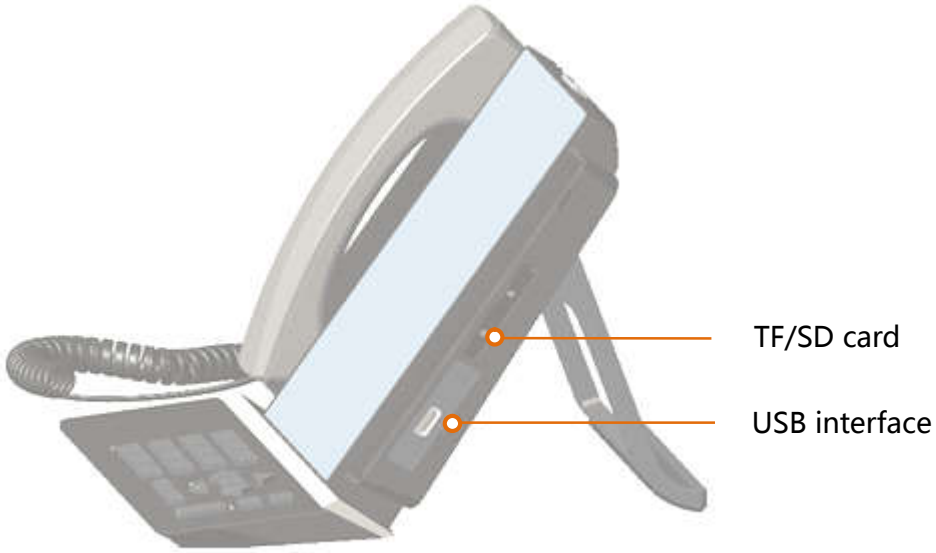
1.2 Accessories

Item	Description
Power adapter	Supply power to phone. Output：DC12V/1A. Input: AC 100-220V, 50-60Hz.
Network cable	Connect the phone to Ethernet.

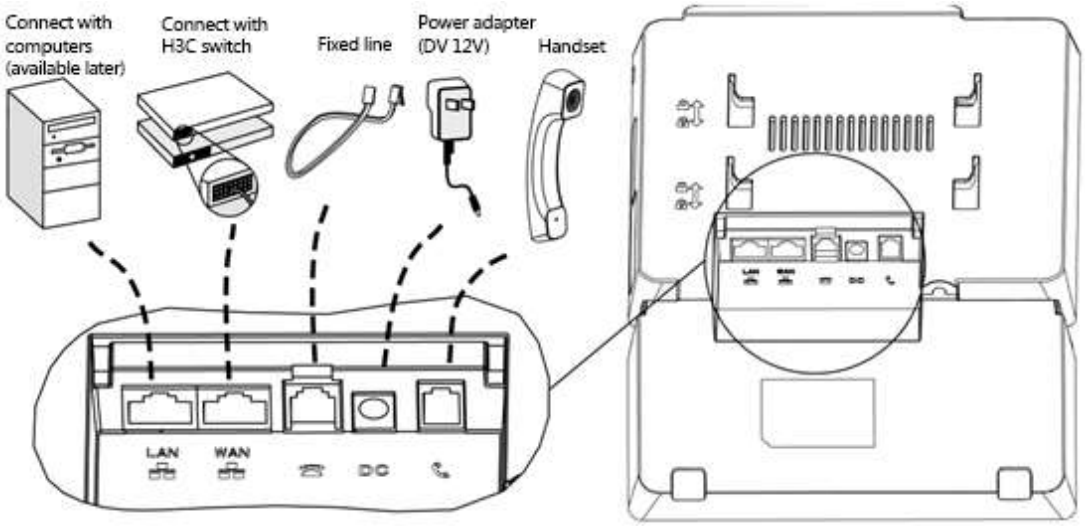
Handset	Users canmake call or answer call with it.
Handset cable	Connect the handset with phone.

1.3 PhysicalKeys

1.4 PhysicalInterfaces



Interface figure 1



Interface figure 2

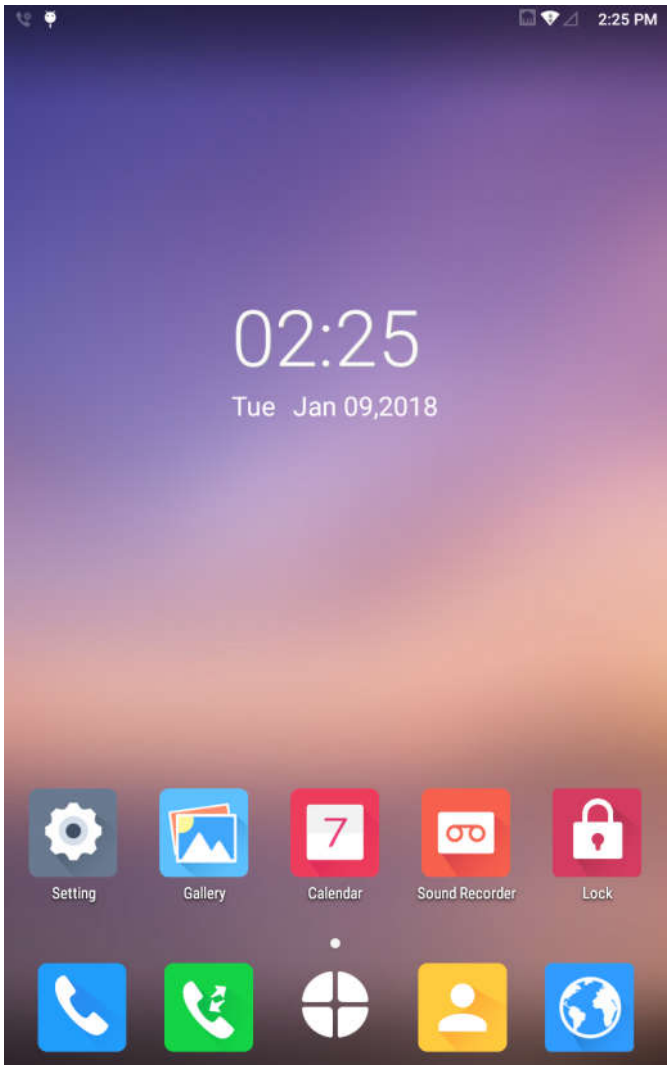
1.5 Technical Specification

Items		V100 Video Phone（IP）
System Configuration	Operating System	Android 5.1
	CPU	Quad Core
	FLASH	8GB
	RAM	1GB
Display		7", 800x1280, IPS multi touch screen
Display angle adjustment		Two angles adjustment
Buttons		4 soft Android keys 12 alphanumeric keys 5 Navigate keys: up/down/left/right/OK 5 Function keys: Hold, Re-dial, Hand-free, Conference, Delete
Camera		5 mega-pixel, can rotate up and down, can turn off by hard switch
Ethernet port		2 Ethernet ports, 10M/100M/1000M, adaptive; POE (Optional)
WIFI		2.4G/IEEE802.11b/g/n
Bluetooth		BT2.1+EDR/3.0/4.1LE
SD card slot		1 SD card slot, support up to 128G
USB2.0 interface		1 USB2.0, support U disk, keyboard, mouse
Trunk interface		SIP2.0、IMS-SIP
Handset port		RJ-9
Protocol	Network protocol	TCP/IP,SIP,SDP,UDP,RTP,RTCP,DHCP,DNS,HTTP, HTTPS,SNTP, XML,TR069
Audio	Audio codec	Encoding/Decoding: G.711a、G.711u、G.729、G.722、iLBC、SILK、OPUS
	Audio features	DTMF:inband/RFC2833 AEC: Acoustic Echo Chancellor PLC: Packet Loss Concealment VQM: Voice Quality Manager AGC: Automatic Gain Control VAD: Voice Activity Detection CNG: Comfort Noise Generator

		AJB:Adaptive Jitter Buffer Sidetone Cancellation ANR: Adaptive Noise Reduction
Video	Video codec	Encoding：H.264, VP8 Decoding：H.264, VP8, H265, MPEG-4
	Video resolution	CIF(352*288) 720p（1280*720） VGA(640*480) QVGA（320*240）
Telephony	Contacts	1000 contacts, support contacts search, import, export
	Call logs	1000 call logs for each received calls/missed calls/dialed numbers
	Local conference	6 parties audio conference
	Telephony features	Call Hold, Call Forward, Call Transfer, Three-Way Calling, Call Waiting, Call Reject, Call ID, Missed Call Reminder, Speed Dial
	Line&SIP account	4 lines，4 accounts
	Android OS features	Build-in APP: calendar, clock, gallery, web browser, search
Security		TLS,SRTP
Customized applications		SDK/API for customer application development; Build-in company contacts
Power adapter		Input：AC100～220V Output：DC12V/1A
Size		200 mm (W) x150mm (D) x 220 mm (H)
Mouting		Desktop, wall-mount

2 Phone Functions

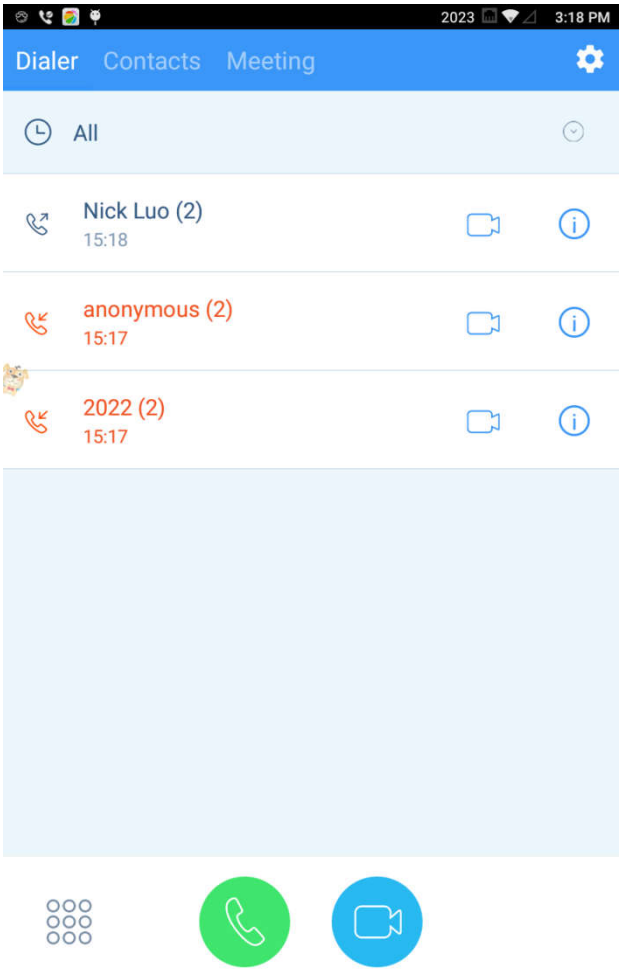
2.1 PhoneInterface



Icons	Description
	Dialer:Enter the System Dialer interface
	Call Log: Enter the System Call logs interface
	Contact: Enter the System Contact interface
	Settings: Enter the V100 Settings interface

2.2 Call LogsInterface

Tap" " on the main interface, jump to the "Call Logs" interface, as shown in the screenshot below. There are "ALL" call records, "Missed" call records and "Unknown" call records.



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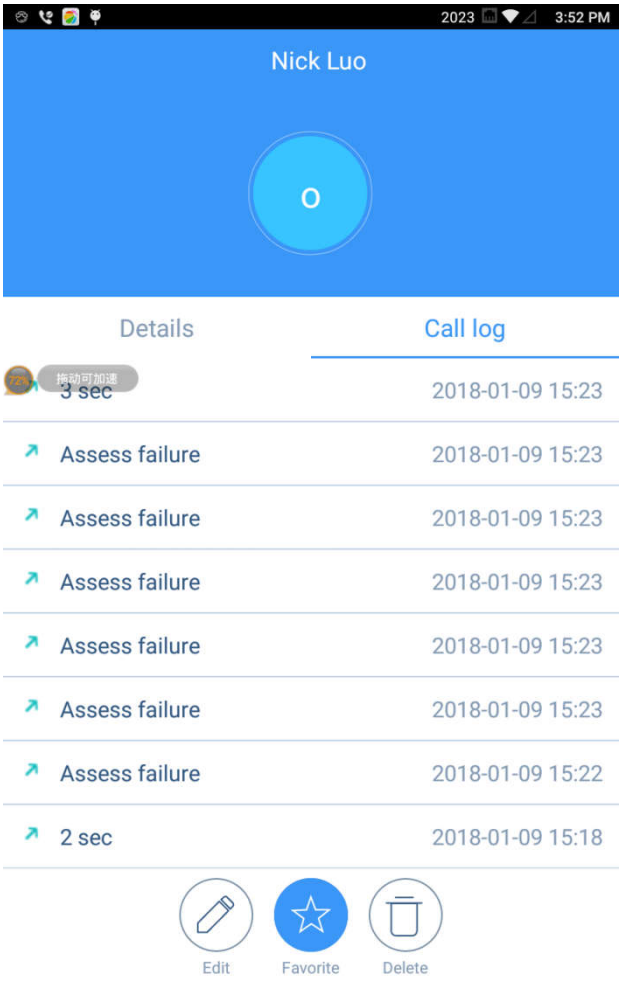
Call LogsInterface

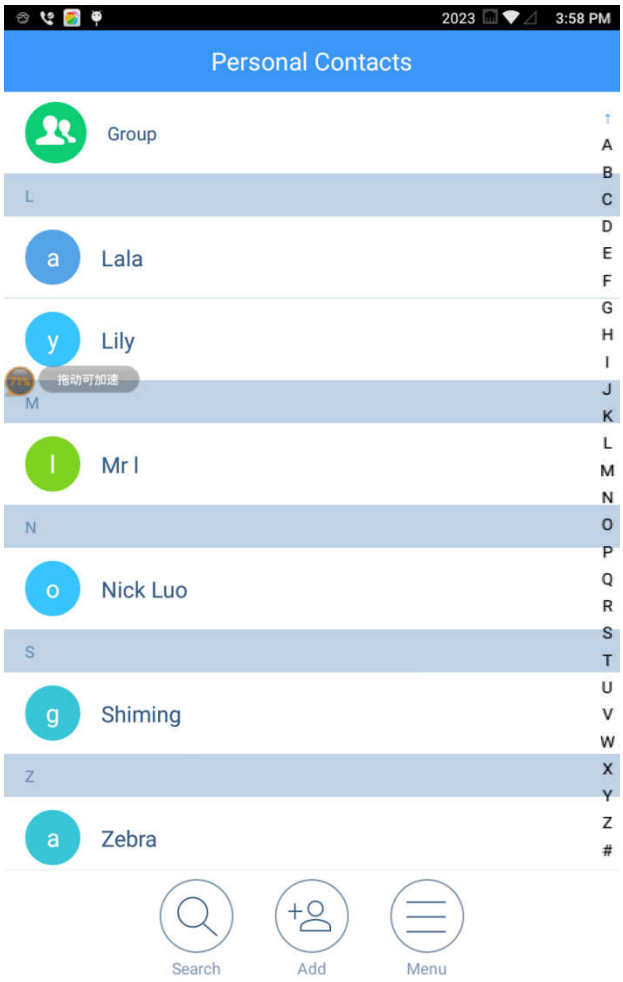
A. The Call log contains "ALL", "Missed" and "Unknown" call records, and every call will be recordeddetailedly. User can tap single log to start a call directly,or click" " to start a video

call directly. User canalso tap" " to view all details of this number, containing the call records, as shown in the screenshot below:



Detailed Call RecordsInterface

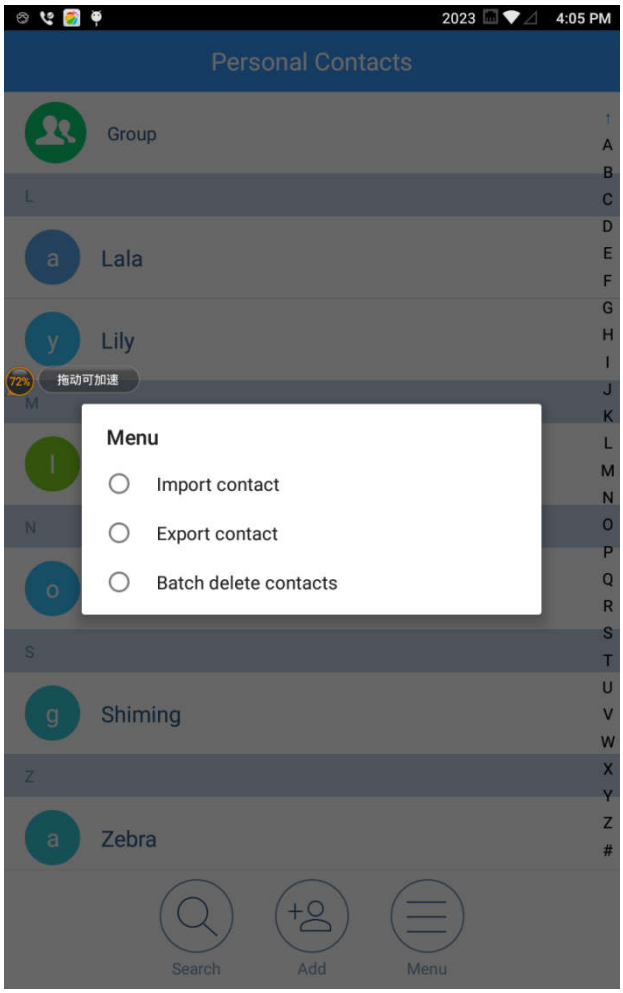
B. Contacts: users can import, export,search, add, edit and delete contacts, as shown in the screenshot below:



Personal ContactsInterface

2.3 Import and Export of Contacts

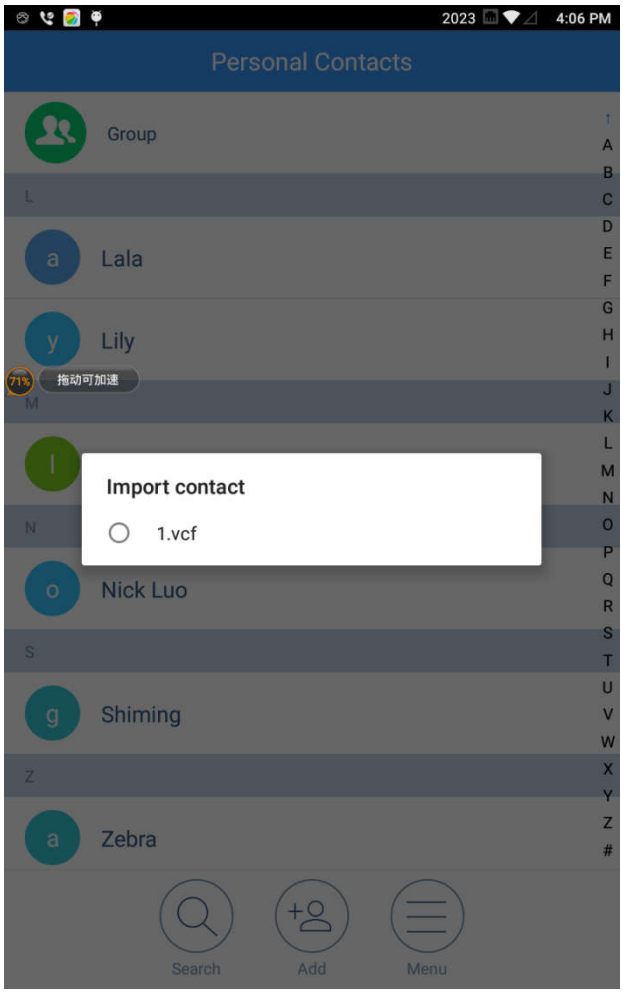
Tap" " on main interface directly, tap "Menu" icon at lower right corner to trigger theContacts import and export interface, as shown in the screenshot below:



Import/Export Contacts Interface

2.3.1 ImportContacts

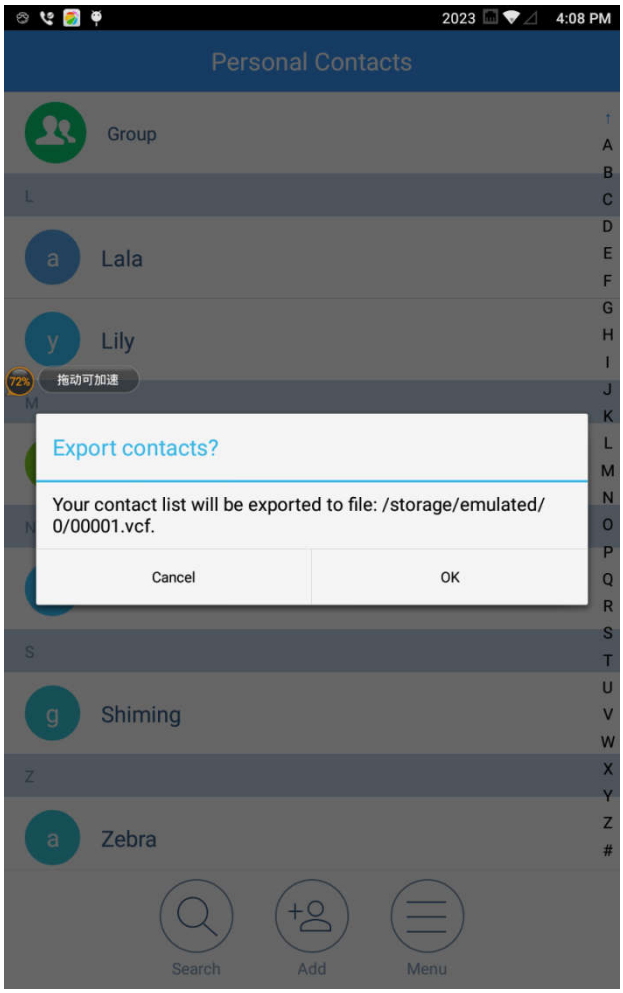
Tap "Import contact" on "Import/Export Contact" Interface, and then the phone will automatically scan contacts document from FLASH or SD card,listing all available VCF files ready to import. Select the file that you want, and tap the "Import" key as shown in the screenshot below:



Import Contact Interface

2.3.2 Export Contacts

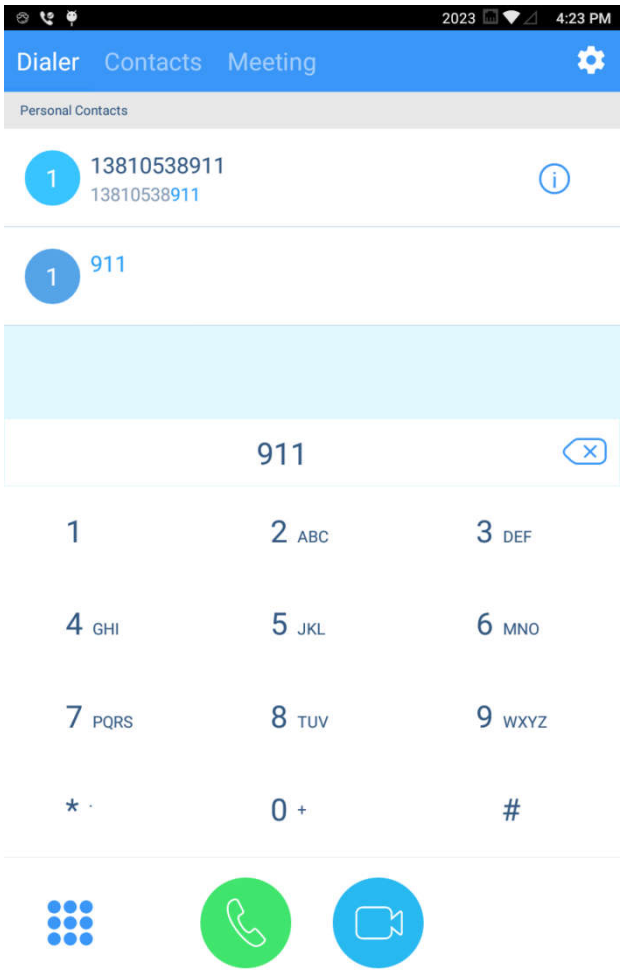
Tap "Exportcontact" on the "Import/Export Contact" Interface,jump to "Export Contact" Interface,and then tap "OK" to export contact file.



Export Contact Interface

2.4 MakingCalls

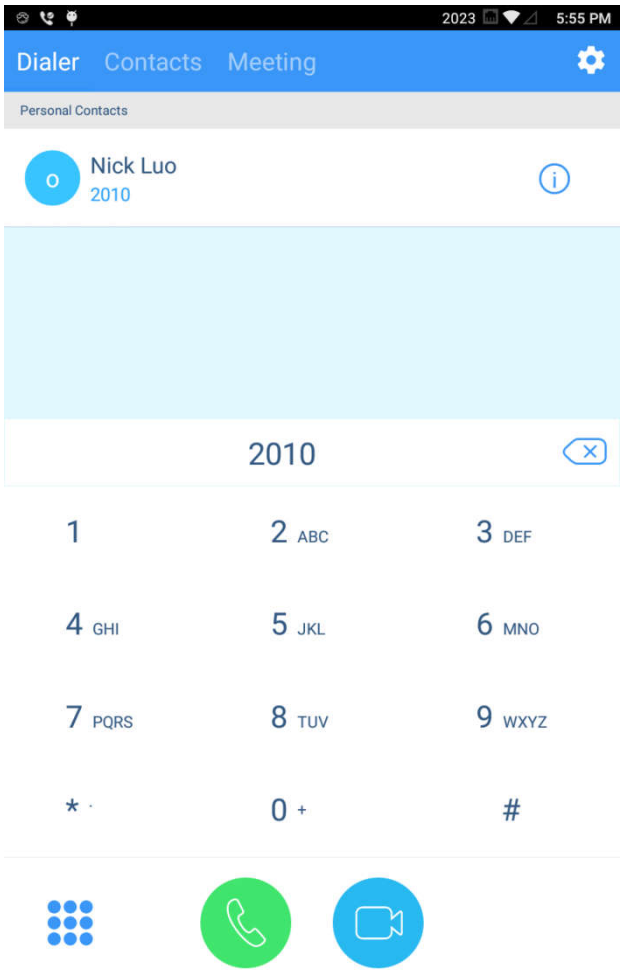
Tap " " on main interface to trigger Dialer interface and then input the telephone number that your want to dial, as shown in the screenshot below:



Tap" " to make call.

2.5 Making VideoCalls

Tap " " on main interface to trigger Dialer interface and then input the telephone number that your want to dial, as shown in the screenshot below:



Tap" " to make video call.

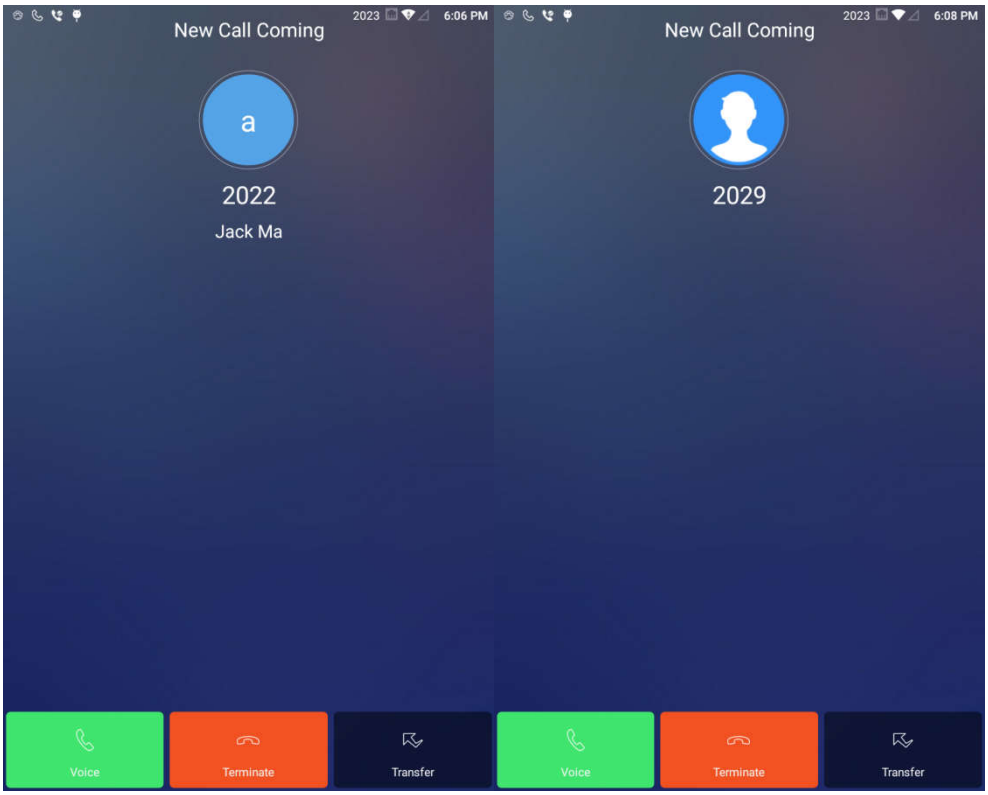
2.6 Answering Calls

A、 When you receive calls from contacts, the incoming call interface will appear and the caller's number and name will both be displayed, as shown in the screenshot below.

B、 When you receive calls from whom is not in the contacts list, and then only phone number will be displayed in the incoming

call interface without caller’ s name, as shown in the screenshot below.

C、 You can select “Transfer” to forward/ “Voice” to accept/ “Terminate” to reject when ringing, as shown in the screenshot below.



Call from Contacts Other calls (not in Contacts)

2.7 Mute during Call

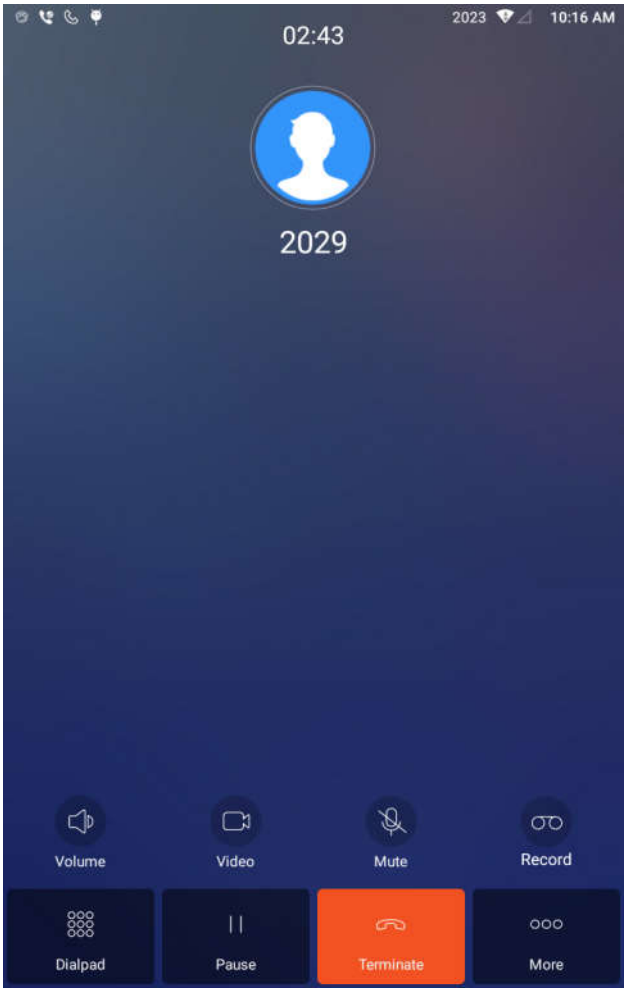
Duringan active call, user can press “Mute” key to mute the call. After “Mute” operation is done, the other party will not hearyou, but you

can still hear the other party is speaking. At thesame time the mute key will become"

" and the user is informed that his/her call is muted.

If user wants to resume the voice, just tap the mute key "

" again.



2.8 Switch between Audio and Video

User can switch from the audio to the video call when a call is active, as shown in thescreenshot below:

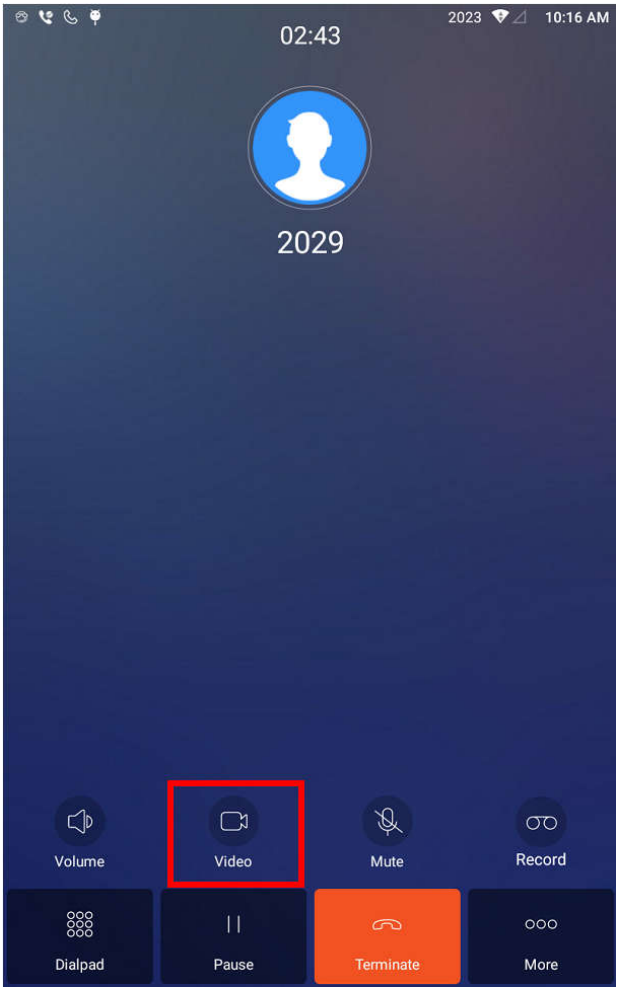


Figure 1 One party taps"

", switch to Video call

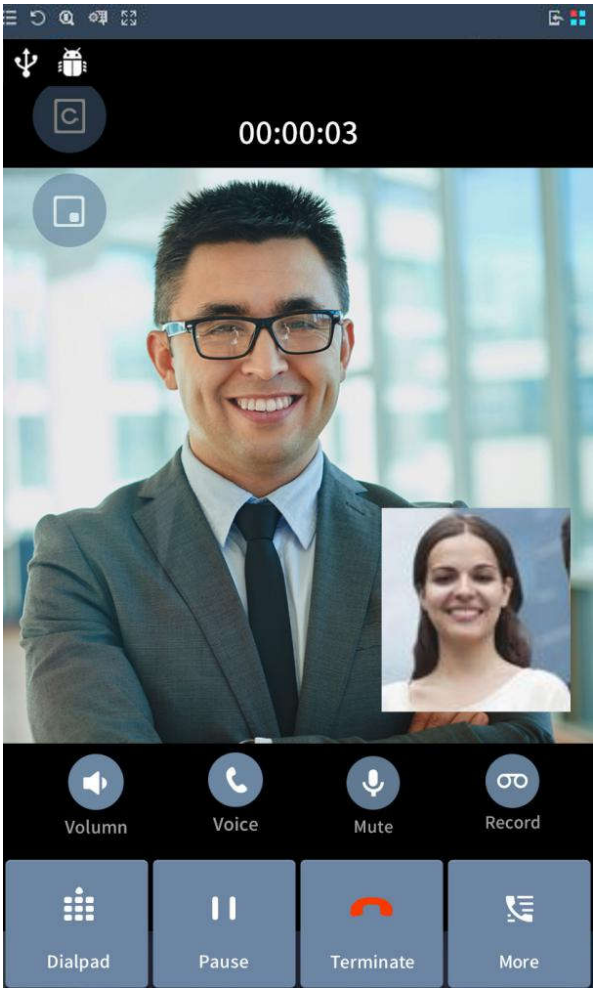


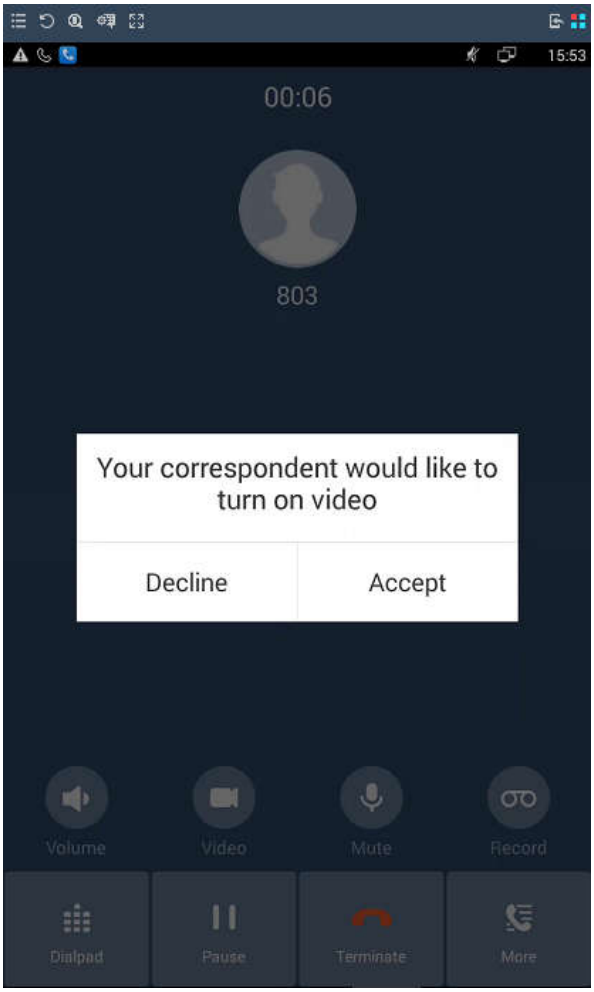
Figure 2 The other party accepts and the video call begins

1. Switch from audio to video:

User's making a voice call, as shown in the above Figure 1.

If theuser wants to switch to video call, he/she can click

to switch tovideo call, the other partypops out a notificationto start the video call, as the figure show in the below.



2. Switch from Video to Audio:

When user is making a video call, he/she can click

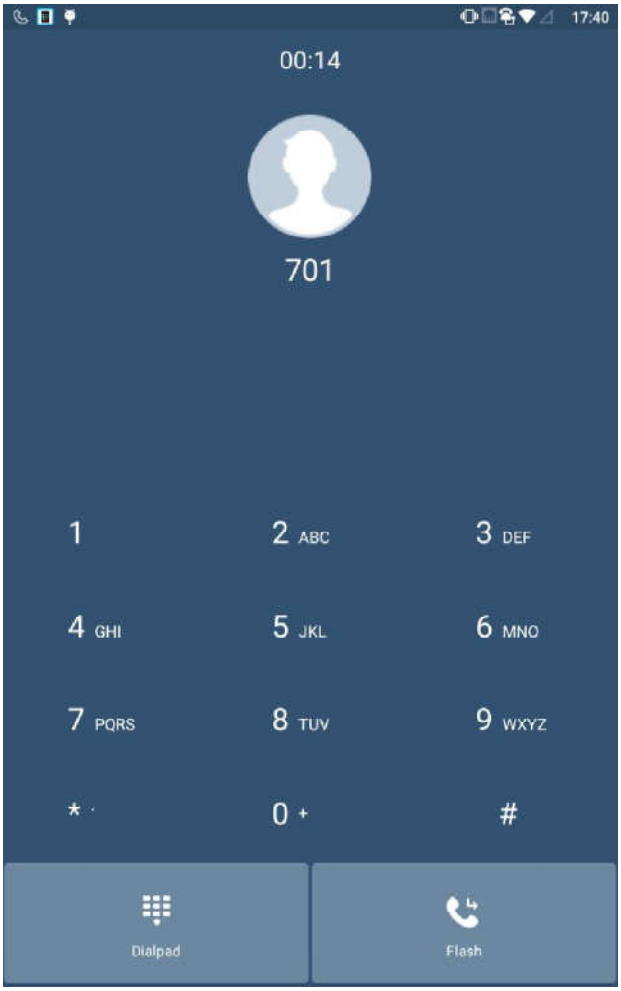
to switch to audio call.

2.9 Call Hold, Resume and Switch

2.9.1 Call Hold

In an active call, user can tap the "Dialpad" button on the phone interface and then click "Flash" button to put the call on hold, as

shown in the screenshot below:



2.9.2 Resume from Call Hold

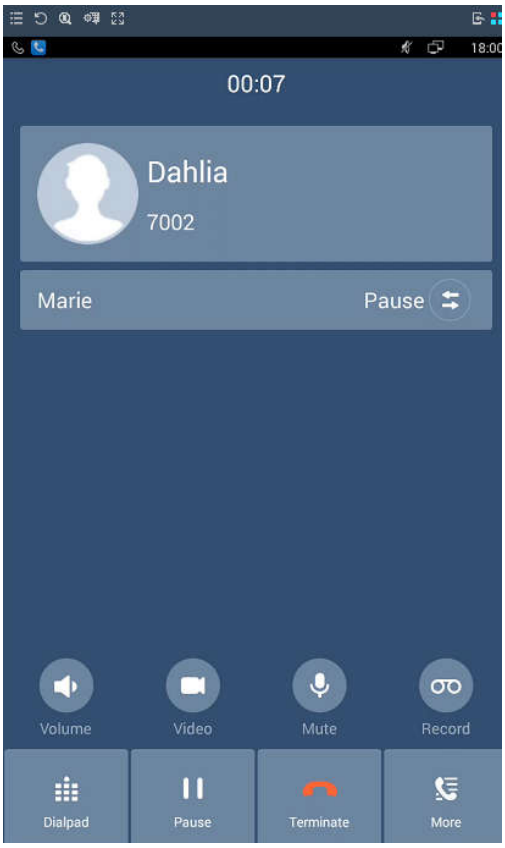
You cantapthe "Flash" button to resume thecallyou put on hold, as shown in the screenshot below:

2.9.3 Switch between CallHold

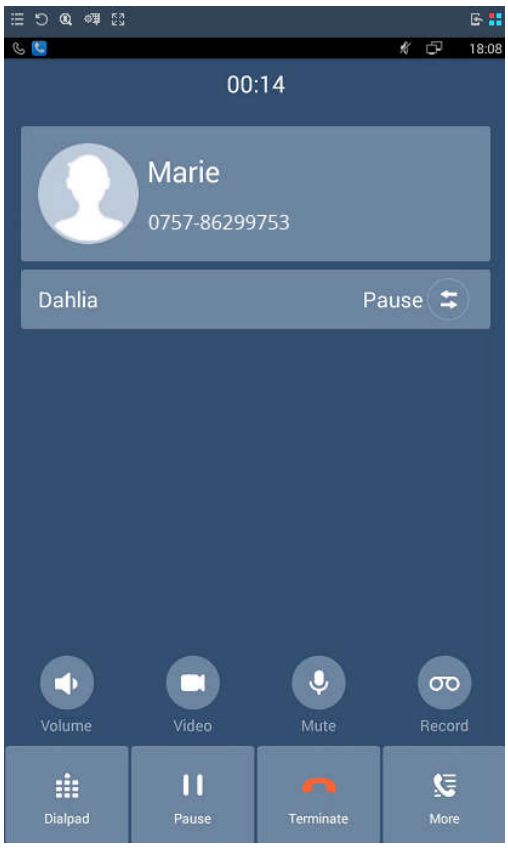
When multiple calls are active, you can tap the desired calland hold othercalls. To tap the held call Pause, you can resume it.

For example, at first the call is active with Dahlia, Marie is on hold,

tap Pause then the call from Marie is resumed, and Dahlia is placed on hold, as shown in the screenshot below.



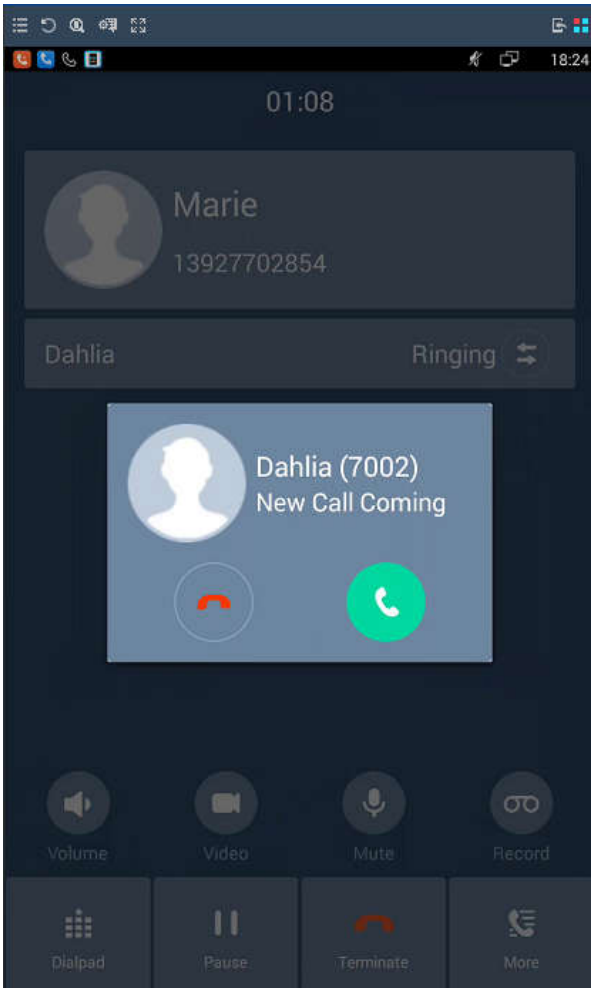
Before switch



After switch

2.10 Call Waiting

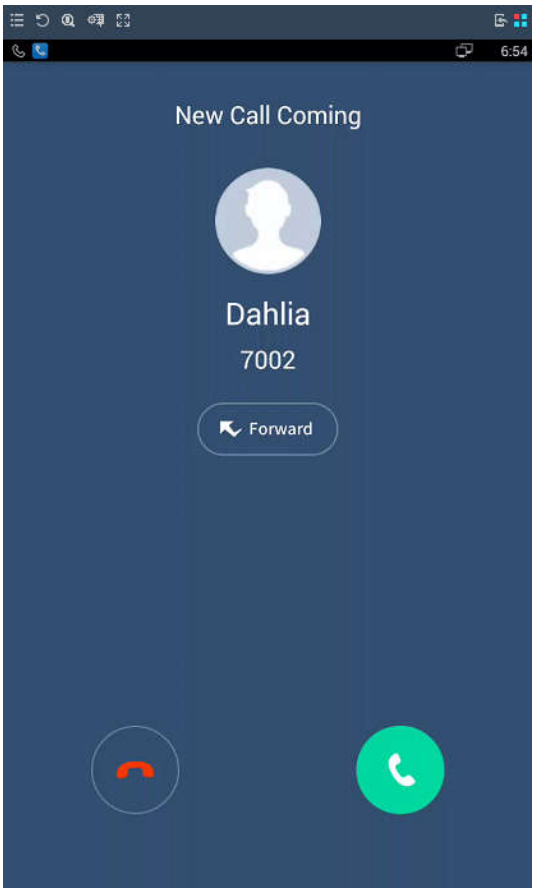
Ifa callis already active on the phone, a prompt screen will pop up when a new call is incoming. User can choose to tap the icon to begin multiple calls, also cantap to reject the new coming call, otherwise the new caller will keep listening the ring back tone, as shown in the screenshot below.



Call Waiting

2.11 Call Forward

For the incoming call, as shown in thescreenshot below,user can click "Forward" keyto trigger the dial pad, input the wanted telephone number and press the pound (#)key(physical button of the phone)/ on screen for voice call/ on screen for video callto forward the call to the wanted number.



Incoming Call Interface

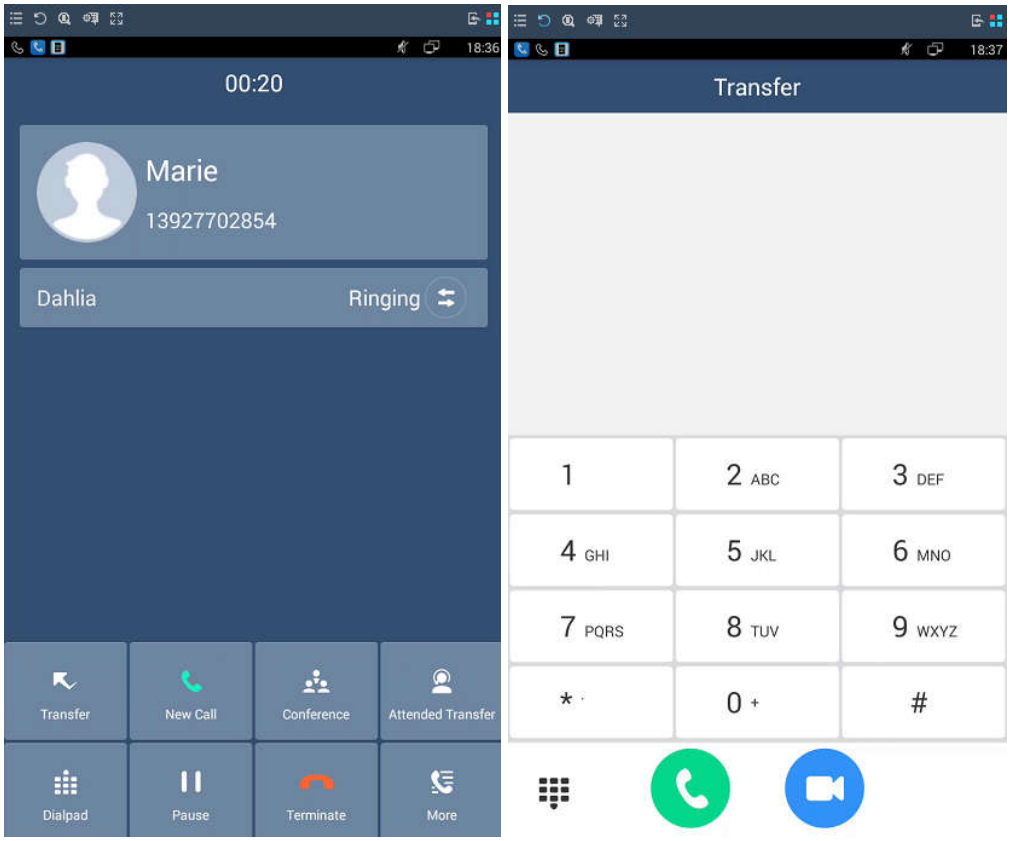
Call Transfer Interface

2.12 Blind Call Transfer

During an active call , user can do the following steps to transfer the call to the third party without his/her permit.:

i. Tap "More" key.

ii. Tap "Transfer" to Enter the dial pad,input the wanted telephone number, and then press the pound (#)key (physical button of the phone)/ on screen for voice call/ on screen for video calltomake a blind transfer.



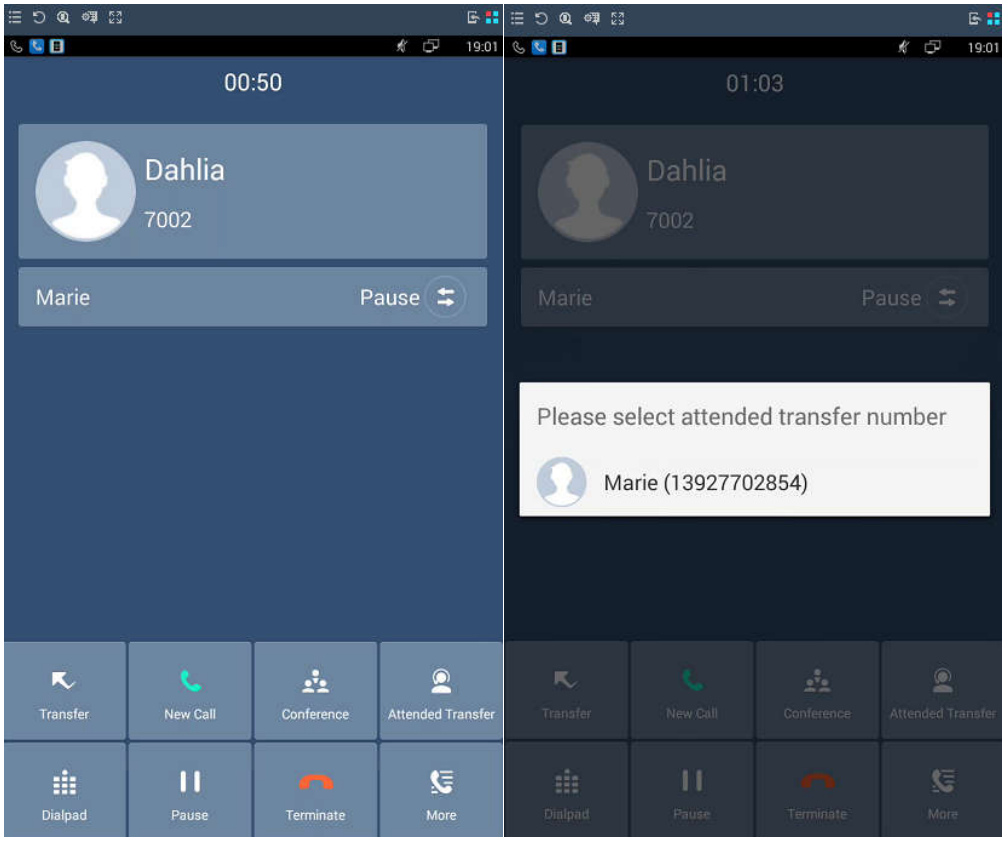
The dial pad for Blind Transferinterface

2.13 AttendedTransfer

When two different calls are active, user can click "More" menu, and click the wanted party to finish the transfer, and user quit finally.

For example, Marie's incoming call is active, the user can call another phone number like Dahlia's number, after Dahlia's call is successfully connected, then click "Attended Transfer" to make Marie and Dahlia connected, and user quit, as shown in thescreenshot below.

The Attended Transfer function also depends on the IPPBX that the smart phone's sip account is registered to.



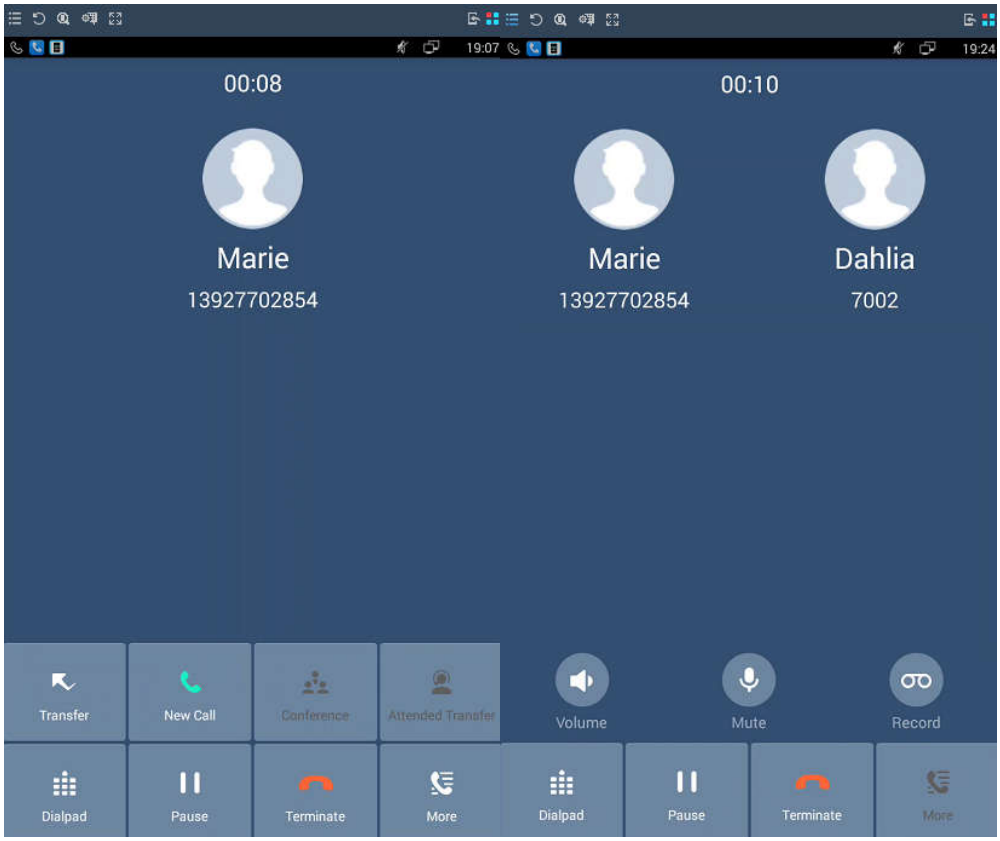
More Interface Interface of AttendedTransfer

2.14 ConferenceCall

User can makea new call during an active all, and switch toConferenceCall(The number of call parties is more than two).

The "ConferenceCall" can be performed by two ways:

- Thephysical ConferenceCallKey on the phone.
- Tap "More" in the call interface, and then tap "Conference" key, then the conference call begins, as shown in thescreenshot below:

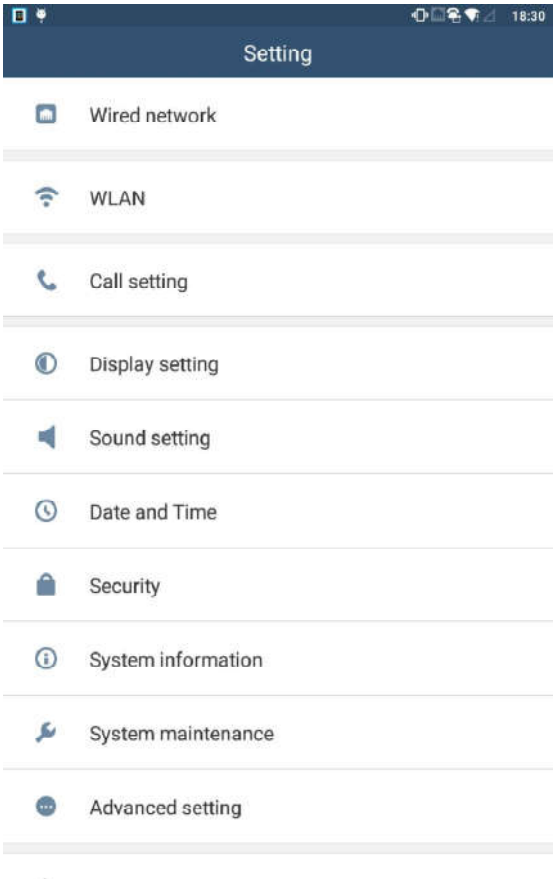


More InterfaceConferenceCallInterface

3 Phone setting

Tap on the main interface to triggerSettings interface, as shown

in thescreenshot below:



Settings Interface

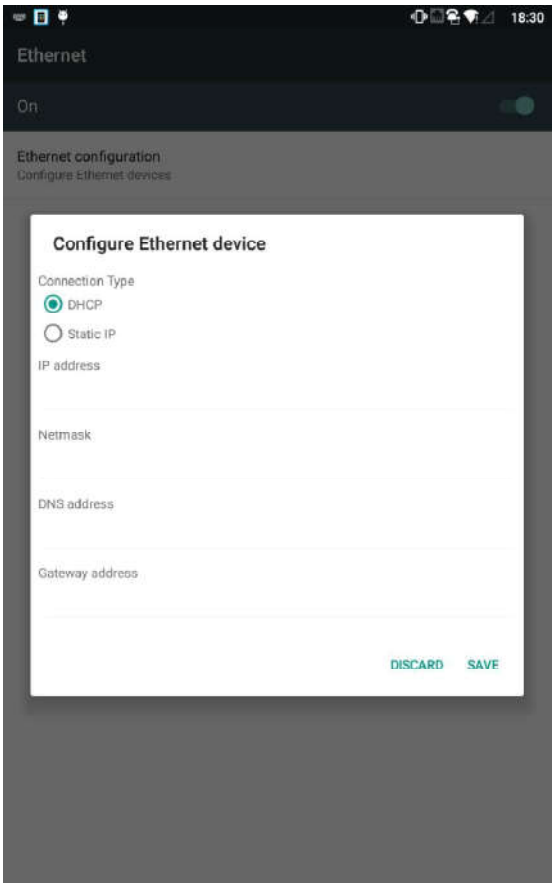
3.1 Network Setting

3.1.1 Wired Network

User can configure network parameters by two ways:

Dynamic Host Configuration Protocol (DHCP) and Static IP.

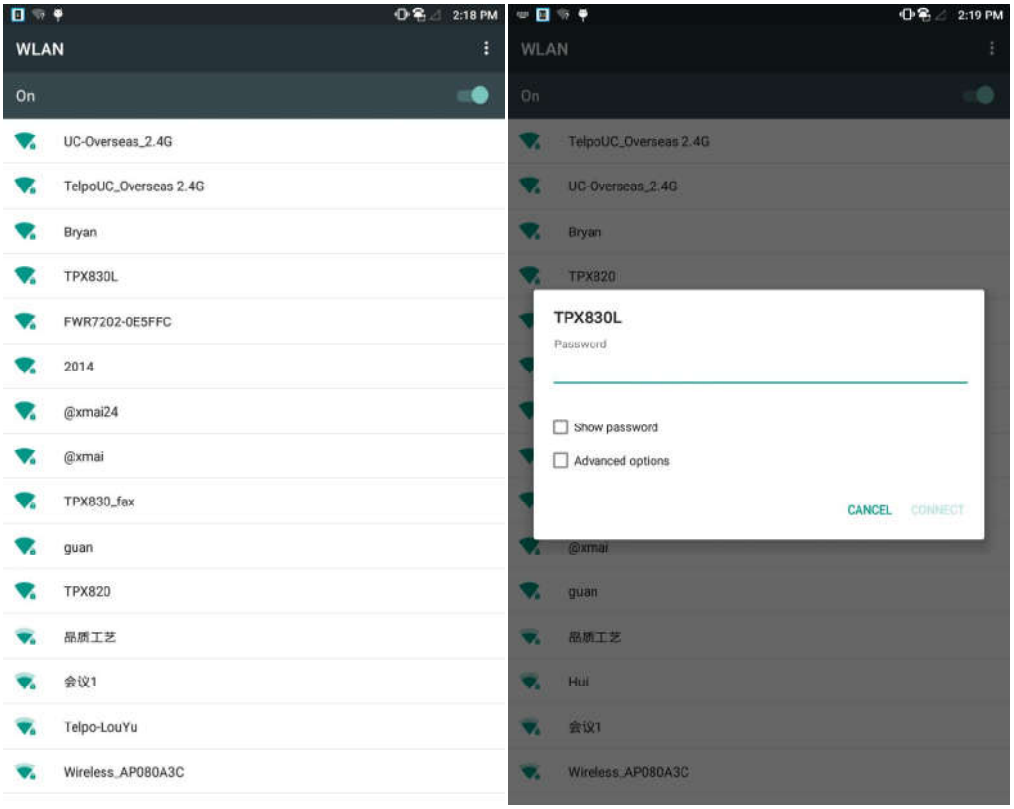
DHCP: The phone defaultmode is DHCP, as is shown in thescreenshot below. User can also configure static IP by himself through tick the Static IP option.



Wired network interface

3.1.2 WLAN

Click WLAN interface, turn on the WLAN switch, the phone will search and list all WIFI-SSID hotspots automatically, user can choose the desired hotspot, input the authentication password to connect. As shown in the figure below.



WLAN interface

3.2 VOIP Setting

VOIP settings include account settings, call settings, other settings, as shown below:

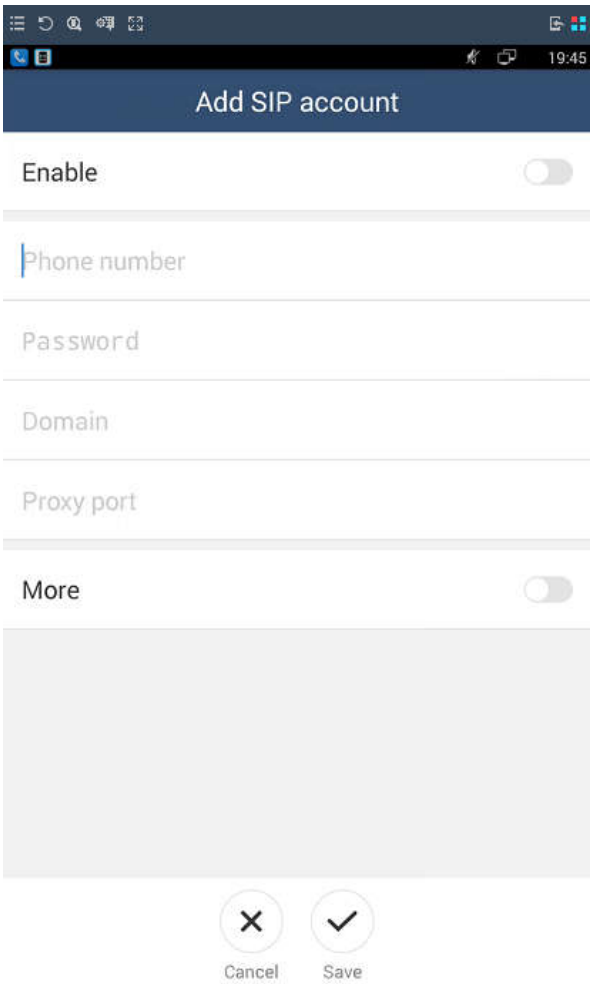
3.2.1 Configuration of SIP Account

Steps: Setting->Account setting->Add SIP account

In "Add SIP account" interface User can configure SIP account, and turn the "Enable" to activate the SIP account.

The necessaryinformation contain "Phone number " (account number) , "Password" , "Domain" and "Proxyport" .

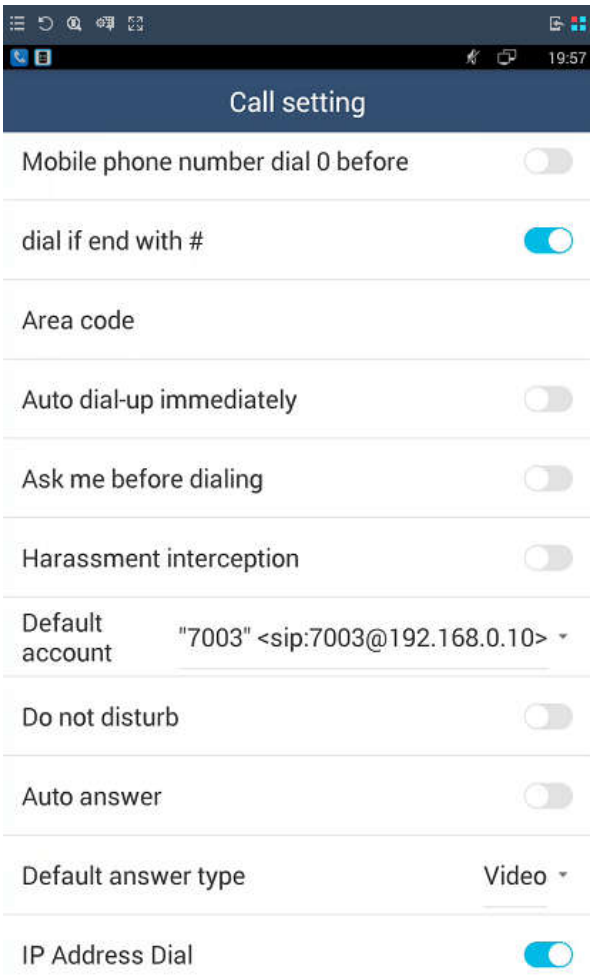
Userclick " more" toinput Proxy address, Authentication User andDisplay name configurations.Normally Proxy address is same as Domain, Authentication User andDisplay name are same as Phone number, as shown in the screenshot below:



SIPAccount Configuration Interface

3.2.2 Call Settings

The call settings are mostly the call parameters shown in the screenshot below:



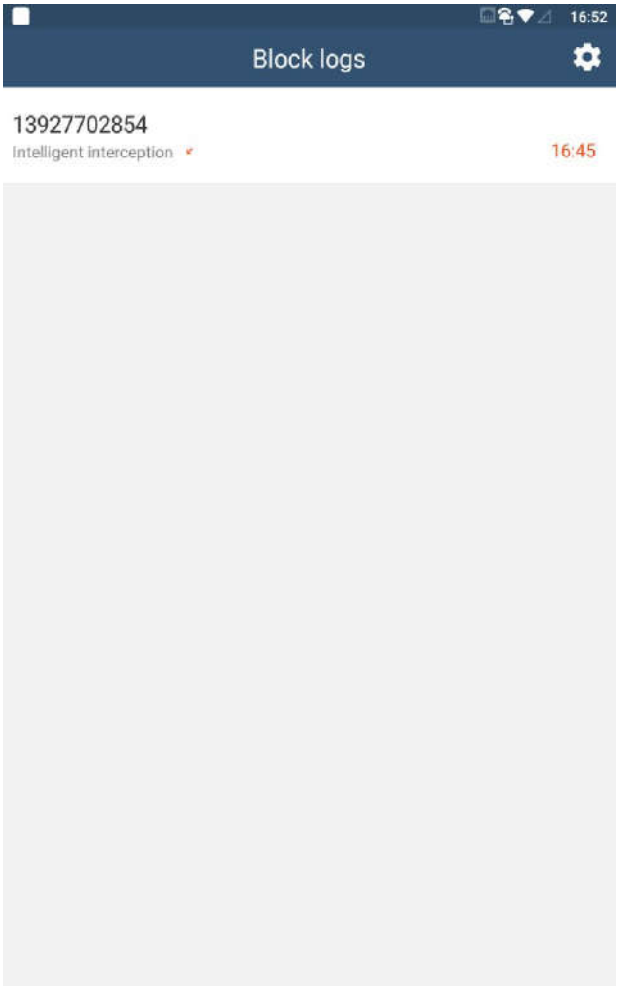
Call Configuration Interface

Item	Description
Mobile phone number dial 0 before	Enableit then the phone will automatically add 0 before dialing amobile number.
Dial if end with #	Enableit then user can press pound key(#) to send the

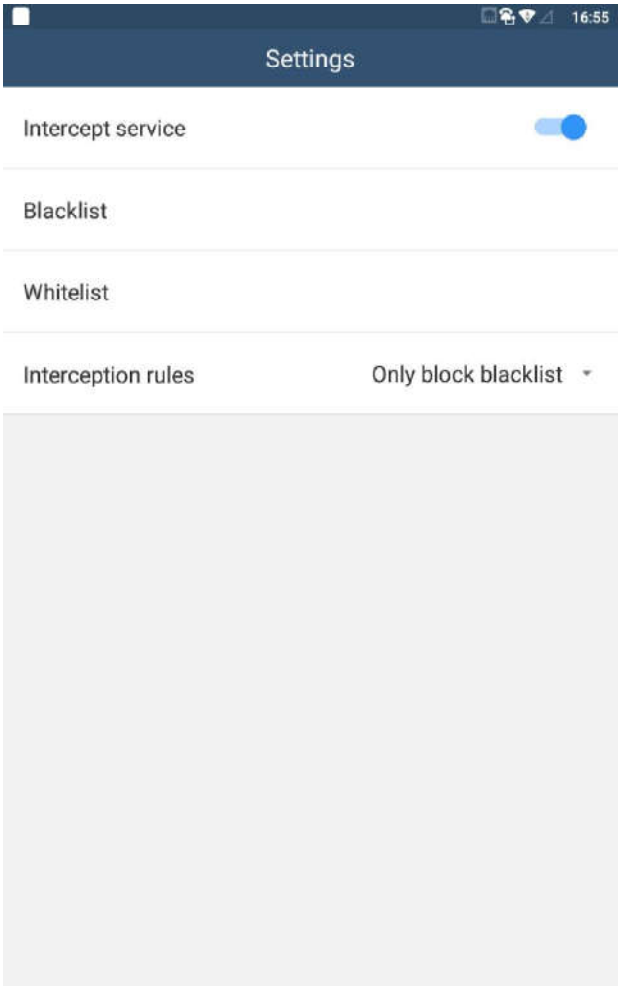
	calling number immediately.
Area code	Set area code of your location
Autodial-up immediately	After the switch is turned on, two configuration itemsappear: “Auto dialnumber” and “Dialdelay”
Auto dialnumber	Configure telephone number that needs to be automatically dialed
Dialdelay	Configure the time periodbefore the number is automatically dialed out and dial such telephone number immediately after user off-hook.
Ask me before dialing	After enablingit, phone will pop up a list for theuser to selectwhich SIP account numberwillbe used to dialout.
Default account	Configure default outgoing callSIP account. After chosen the above mentioned pop-up will not appear.

3.2.2.1 Blacklist

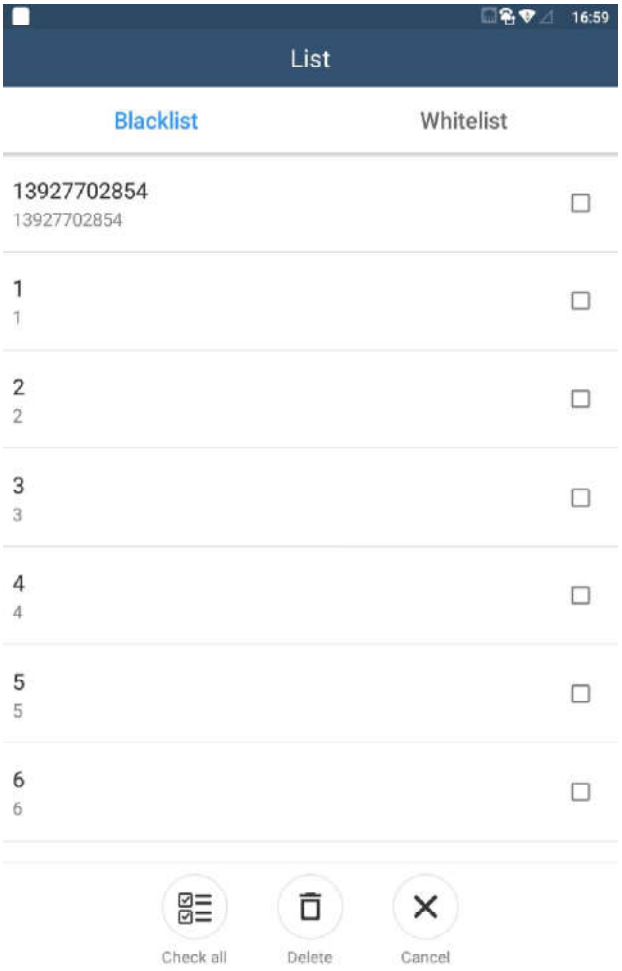
User can store up to 20 contacts in the blacklist. Incoming calls from the blacklist will be rejected automatically, and displayed in the Block logs interface.



Tap to enter the Blacklist and Whitelist Setting interface. The interception rules can be "Only block blacklist" and "Only answer whitelist".



Switch the "Intercept service" on, the blacklist and whitelist function is active. Tap the "Blacklist" or "Whitelist", user can edit the blacklist and whitelist. The max number ofboth records is 20.

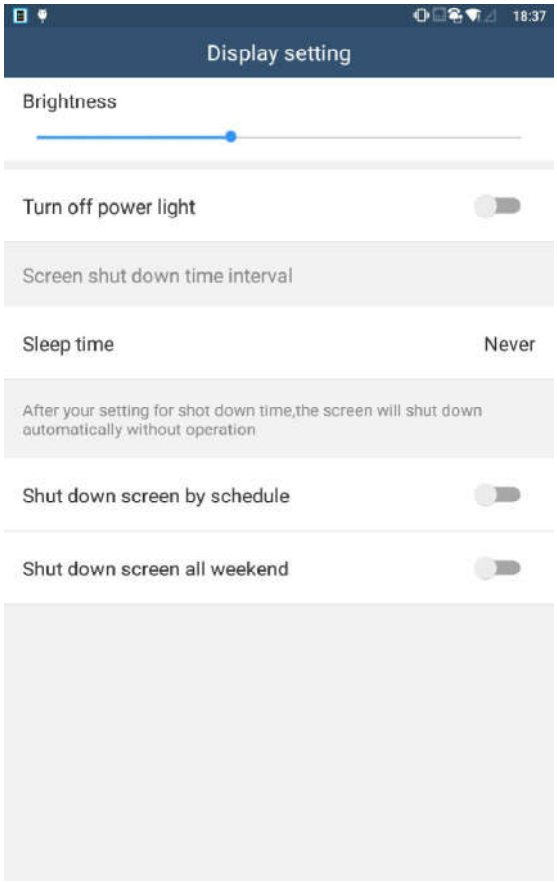


3.2.3 Other Setting

Item	Description
Clear account information	Clear all sip account information
Echo cancellation level	Set the echo cancellation level, the default is "Medium"

3.3 Display Setting

Configure display related parameters, as shown in the screenshot below.



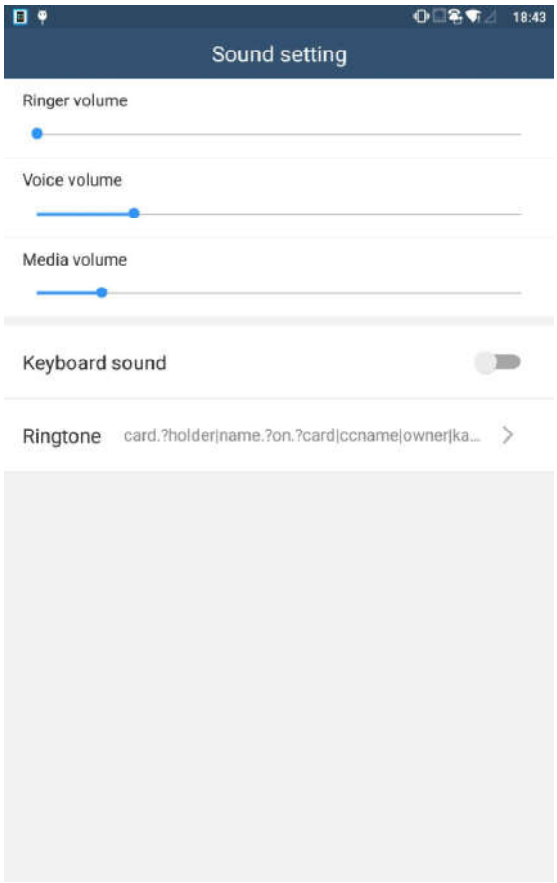
Display setting interface

Items	Description
Brightness	Configure the brightness of the screen
Turn off power light	Turn it on to turn off the power light of the phone.
Sleep time	Turn it on to set sleep time , default interval is 15

	seconds.
Shut down screen by schedule	Turn it on to set the schedule to screen on and screen off.
Shut down screen all weekend	Turn it on to screen off on weekends.

3.4 Sound Setting

Configure sound related parameters, as shown in the screenshot below.



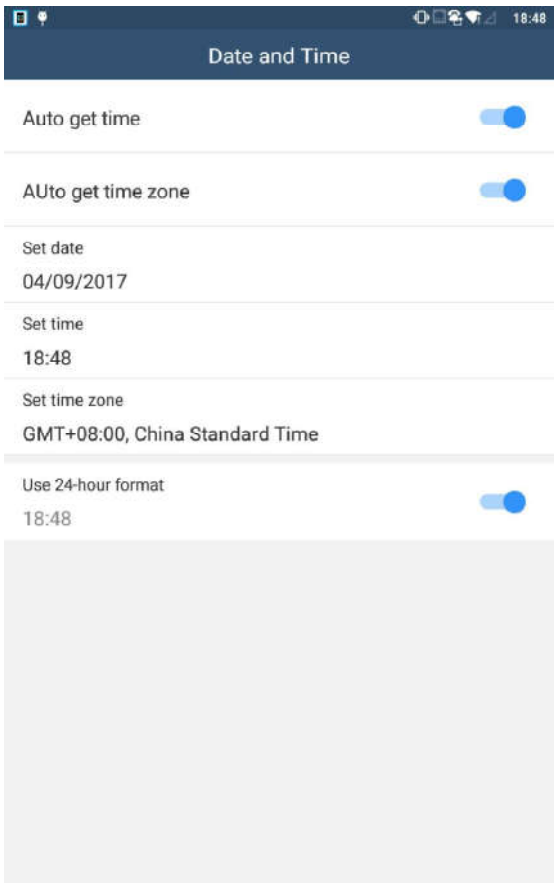
Sound setting interface

Items	**Description**

Ringer volume	Configure the ringer volume of the phone.
Voice volume	Configure the voice volume of the phone.
Media volume	Configure the media volume of the phone.
Keyboard sound	Turn it on to enable keyboard sound.
Ringtone	Configure the ringtone of the phone.

3.5 Date and Time

Configure date and time of the phone, as shown in the screenshot below.



Date and Time setting interface

Items	Description

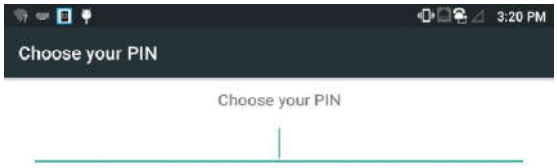
Auto get time	Turn it on to auto get time when phone connected to Ethernet.
Auto get time zone	Turn it on to auto get time zone when phone connected to Ethernet.
Set date	Manually set date where phone locates.
Set time	Manually set time where phone locates
Set time zone	Manually set time zone where phone locates
Use 24-hours format	Turn it one to display time in 24-hours format.

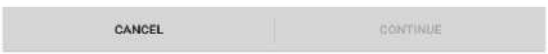
3.6 Security

In the Security interface user can configure three unlock selections according to his/her demand.

1) Tap "None" option once: Press any key on the physical keypad of the phone directly to unlock it.
2) Tap "Swipe" option once: Press any key on the physical keypad of the phone firstly, and then unlock the phone by a swipe on the screen.
3) Tap "PIN" option: User configures a PIN code to unlock the phone. The PIN code should be 4-digit numbers and should be input twice to confirm.

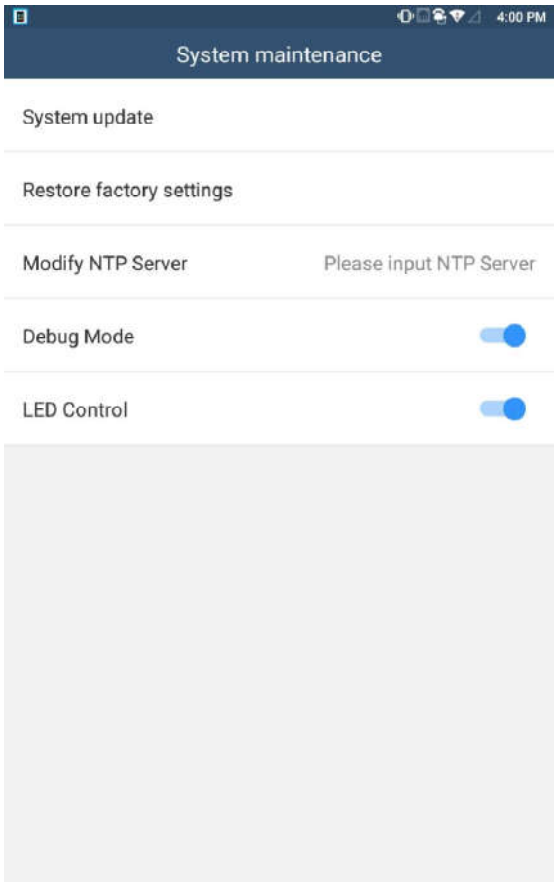
18:51
Unlock selection
None
Swipe
PIN


3:20 PM
Choose your PIN
Choose your PIN


CANCEL
CONTINUE

3.7 System Maintenance

In the System maintenance interface, user can configure maintenance setting of the phone, as shown in the screenshot below.



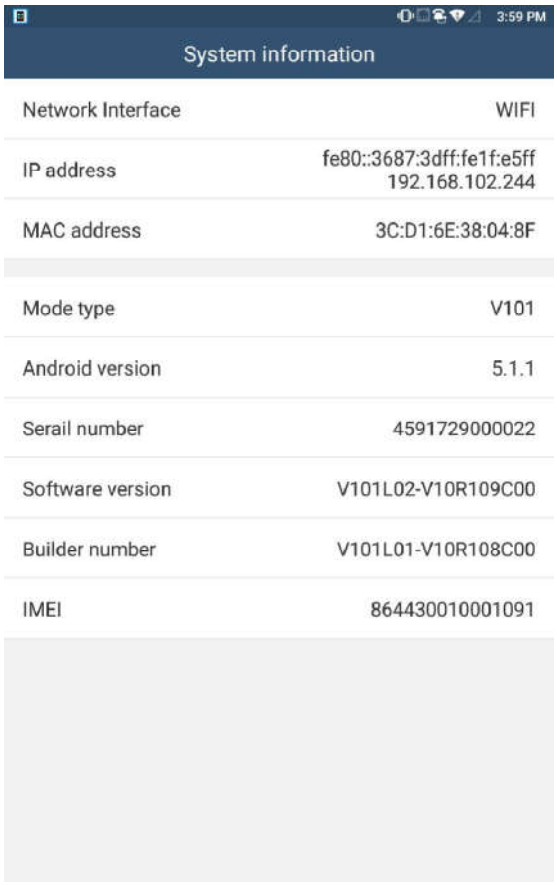
System maintenance interface

Item	Description
System update	Update the software of the phone.
Restore to factory setting	Tap this option then the phone will be back to factory setting.
Modify NTP Server	Set the NTP server address to synchronize the time with NTP server.

Debug mode	To maintain and debug the phone, please contact the system administrator to switch it on.
LED control	Turn it on to light the LED on the right side of the phone.

3.8 System Information

In the System information interface, user can check the detailed information of the phone, including network information, mode type, android version, serial number, software version, builder number and IMEI, as shown in the screenshot below.



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