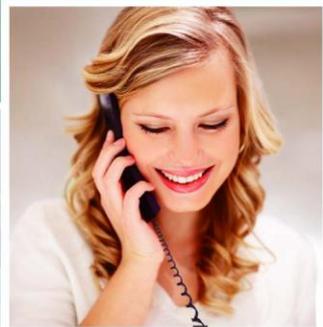


# Yealink



**HD** 



**SIP-T20P**

# Enterprise IP Phone

User Guide (v61.0)

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## CE Mark Warning

This device is marked with the CE mark in compliance with EC Directives 2006/95/EC and 2004/108/EC.

## Part 15 FCC Rules

This device is compliant with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interferences received, including interference that may cause undesired operation.

---

## Class B Digital Device or Peripheral

Note: This device is tested and complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

## WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.



## About This Guide

Thank you for choosing the SIP-T20P IP phone, an exquisitely designed SIP IP phone. This unit provides business telephony features such as Call Hold, Call Transfer, Busy Lamp Field, Shared Line, Multicast Paging and Conference over an IP network.

This guide provides everything you need to quickly use your new phone. Be sure to verify with your system administrator that your network is prepared for configuring your IP phone. As well, be sure to read the Packing List and Regulatory Notices sections in this guide before you set up and use the SIP-T20P IP phone.

If this is your first time using SIP-T20P IP phone, we recommend that you first refer to the Quick Installation Guide and Quick Reference Guide. Documents are available for download at: <http://www.yealink.com/index.php/Support/>.

## In This Guide

This is the first edition based on firmware version 61.0. The topics provided in this guide include:

- Chapter 1 [Overview](#)
- Chapter 2 [Getting Started](#)
- Chapter 3 [Customizing Your Phone](#)
- Chapter 4 [Basic Call Features](#)
- Chapter 5 [Advanced Phone Features](#)



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# Overview

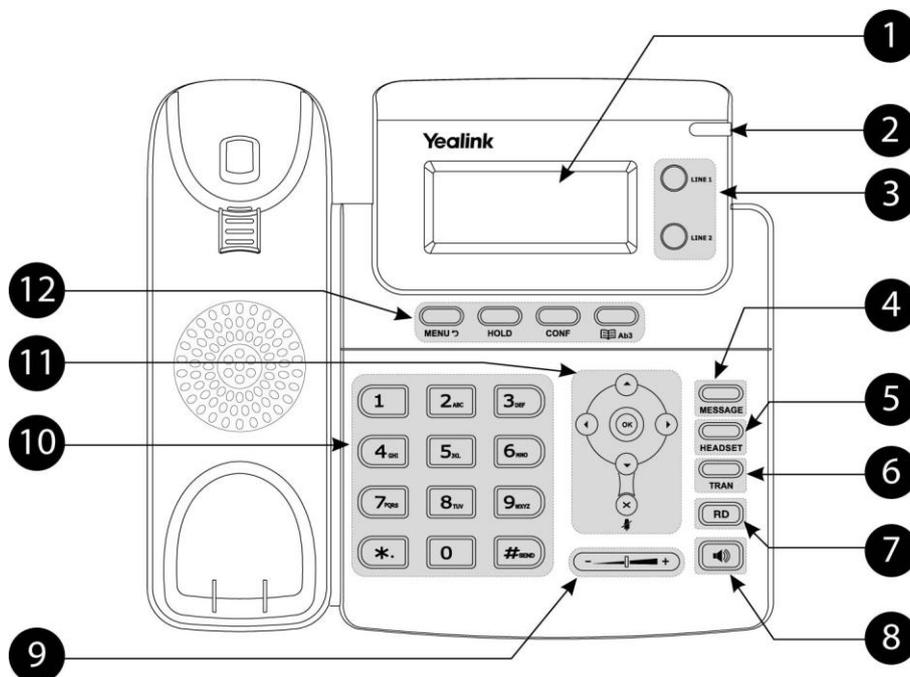
This chapter provides the overview of the SIP-T20P IP phone. The topics include:

- [Hardware Component Instructions](#)
- [Icon Instructions](#)
- [LED Instructions](#)
- [User Interfaces](#)
- [Documentation](#)

If you require additional information or assistance with your new phone, contact your system administrator.

## Hardware Component Instructions

The main hardware components of the SIP-T20P IP phone are the LCD screen and the keypad.



Hardware component instructions of the SIP-T20P IP phone are:

	Item	Description
①	LCD Screen	Shows information about calls, messages, time, date and other relevant data. <ul style="list-style-type: none"> <li>• Call information — Caller ID, call duration</li> <li>• Icons (for example, <b>DND</b> )</li> <li>• Missed call text or second incoming caller information</li> <li>• Prompt text (for example, “New Voice Mail”)</li> <li>• Time and date</li> </ul>
②	Power Indicator LED	Indicates phone power status.
③	Line Keys	Use these keys to activate up to two accounts and assign various functionalities.
④	MESSAGE Key	Indicates and accesses voice messages.
⑤	HEADSET Key	Toggles the headset mode.
⑥	TRAN Key	Transfers a call to another party.
⑦	Redial Key	Redials a previously dialed number.
⑧	Speakerphone Key	Toggles the hands-free speakerphone mode.
⑨	Volume Key	Adjusts the volume of the handset, headset, speaker, and ringer.
⑩	Keypad	Provides the digits, letters, and special characters in context-sensitive applications.
⑪		Scroll through the displayed information.
		Confirms actions or answers an incoming call.
		Cancels actions, rejects incoming calls, or mutes an active call.
⑫	MENU Key	Enters the main menu of phone or returns to the previous interface.
	HOLD Key	Places a call on hold or resumes a held call.
	CONF Key	Conducts a conference call with multiple other parties.
	Directory Key	Enters the directory interface or switches the input mode.

## Icon Instructions

Icons appear on the phone LCD screen are described in the following table:

Icon	Description
	Network is unavailable
	Hands-free speakerphone mode
	Handset mode
	Headset mode
123	Numeric input mode
abc	Multi-lingual lowercase letters input mode
ABC	Multi-lingual uppercase letters input mode
2aB	Alphanumeric input mode
	Voice Mail
AA	Auto Answer
DND	Do Not Disturb
	Call Forward
	Call Mute
	Keypad Lock
	Received Calls
	Dialed Calls
	Missed Calls
	Recording box is full
	A call cannot be recorded

Icon	Description
	Recording starts successfully
	Recording cannot be started
	Recording cannot be stopped

## LED Instructions

### Power Indicator LED

LED Status	Description
Solid green	The phone is powered on.
Flashing green	The phone is ringing.
Off	The phone is powered off.

### Line key LED

LED Status	Description
Solid green	The line is active.
Fast flashing green	The line receives an incoming call, the phone is ringing.
Slow flashing green	The call is placed on hold.
Off	The line is inactive.

### Line key LED (configured as BLF key)

LED Status	Description
Solid green	The monitored user is idle.
Fast flashing green	The monitored user is ringing.
Slow flashing green	The monitored user is busy.
Off	The monitored user does not exist.

### Line key LED (configured as shared line key)

LED Status	Description
Solid green	All the parties are idle.
Slow flashing green	The shared line is seized. Some party receives the ringback.
	The shared line conversation is placed on private hold.
	For multi-party call, all the parties place the shared line conversation on hold.
Fast flashing green	The shared line receives an incoming call.
	The shared line is in conversation. The shared line conversation is placed on public hold.
Off	The shared line does not exist

## User Interfaces

There are two ways to customize specific configurations on your SIP-T20P IP phone:

- Using the User Interface on the IP phone.
- Using the User Interface in an Internet browser window from your PC.

The hardware components keypad and LCD screen constitute the phone user interface, which allows the user to execute all call operation tasks and basic configuration changes directly on the phone. In addition, each phone has a web user interface to access all configuration settings. In many instances, it is possible to use both the phone user interface and the web user interface to operate the phone and change settings. However, in some instances, it is only possible to use the phone or the web user interface.

## Phone User Interface

You can customize your phone by pressing the MENU key to access the phone user interface. The "Advanced Settings" options are administrator level features only, the default password is admin (case-sensitive). For more information on customizing your phone using the available options from the phone user interface, refer to [Customizing Your Phone](#) on page 17.

## Web User Interface

In addition to the phone user interface, you can also customize your phone via web user interface. In order to access the web user interface, you need to know the IP address of your new phone. To obtain the IP address, press the OK key on the phone. Enter the IP address (e.g. <http://192.168.0.10> or 192.168.0.10) in the address bar of web browser on your PC. The default user name is admin (case-sensitive) and the password is admin (case-sensitive).

### Note

Please locate your PC in the same network segment of the IP phone (192.168.0.X) to access the web user interface.

The options you can use to customize the IP phone via phone user interface and/or via web user interface are listed in the following table:

Option	Phone User Interface	Web User Interface
<b>Status</b>		
--IP		
--MAC		
--Firmware	√	√
--Network		
--Phone		
--Accounts		
<b>Basic Call Features</b>		
--Call Forward		
--Call Park		
--Call Pickup		
--Call Return	√	√
--Conference		
--Anonymous Call		
--Anonymous Call Rejection		
--DND		
<b>Basic Phone Settings</b>		
--Language	√	√
--Time & Date	√	√
--Ring Tones	√	√
--Call Waiting	√	√
--Keypad Lock	√	√
--Phone Volume	√	
--Logo Customization		√
--Contact Management		
--Local Directory	√	√
--Blacklist	√	√
--Dial Plan		√
--DSS Keys	√	√
--Key as Send	√	√
--Hot Line	√	√
--Live Dialpad		√
--Emergency		√
<b>Advanced Phone Features</b>		
--BLF/BLF List	√	
--Shared Line	√	
--Intercom	√	√
--Call Recording	√	
--Multicast Paging	√	
--Music on Hold	√	

Option	Phone User Interface	Web User Interface
--ACD	√	√
--Messages	√	√
<b>SIP Account</b>		
--User Option		
--Register Status	√	
--Activation	√	
--Label	√	
--Display Name	√	
--Register Name	√	
--User Name	√	
--Password	√	√
--SIP Server	√	
--Server Option		
--Registrar Port		
--Outbound Status	√	
--Outbound Proxy	√	
--Backup Outbound Proxy	√	
--NAT Traversal		
--STUN Status	√	
--STUN Server	√	

**Note** The table above lists most of the feature options. Please refer to the relevant sections for more information.

## Documentation

The following table shows documentations available for the SIP-T20P IP phone.

Name	Contents	Where found	Format/ Language
Quick Installation Guide	Basic set up of the phone	In the package	PDF/English
Quick Reference Guide	Basic call features and phone customization	In the package	PDF/English
User Guide	Phone or web user interface settings Basic call features and advanced phone features	CD attached in the package	PDF/English

**Note** You can also download the latest documentations from website:  
<http://www.yealink.com/index.php/Support/>

# Getting Started

This chapter provides basic installation instructions and information for obtaining the best performance with the SIP-T20P IP phone. The topics include:

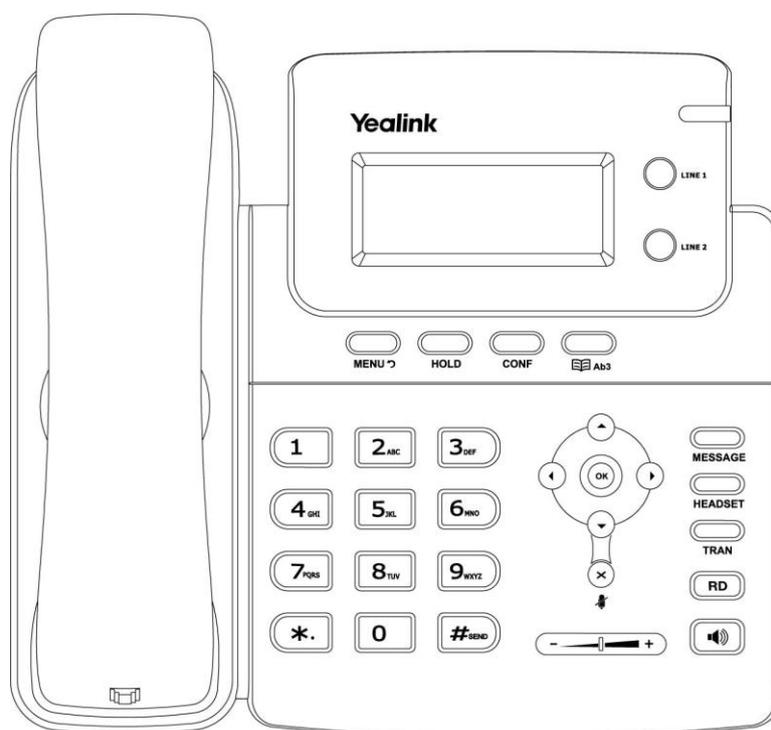
- [Packing List](#)
- [Phone Installation](#)
- [Phone Initialization](#)
- [Phone Status](#)
- [Basic Network Settings](#)
- [Registration](#)
- [Idle Screen](#)

If you require additional information or assistance with your new phone, contact your system administrator.

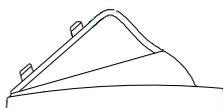
## Packing List

The following components are included in your SIP-T20P IP phone package:

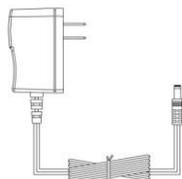
- **SIP-T20P IP phone**



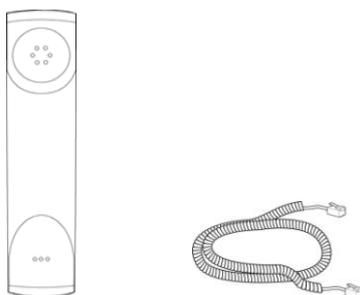
- **Phone Stand**



- **Power Adapter**



- **Handset & Handset Cord**



- **Ethernet Cable**



- **Quick Installation Guide & Quick Reference Guide**



- **CD-ROM**



Check this list before installation. If you find anything missing, contact your system administrator.

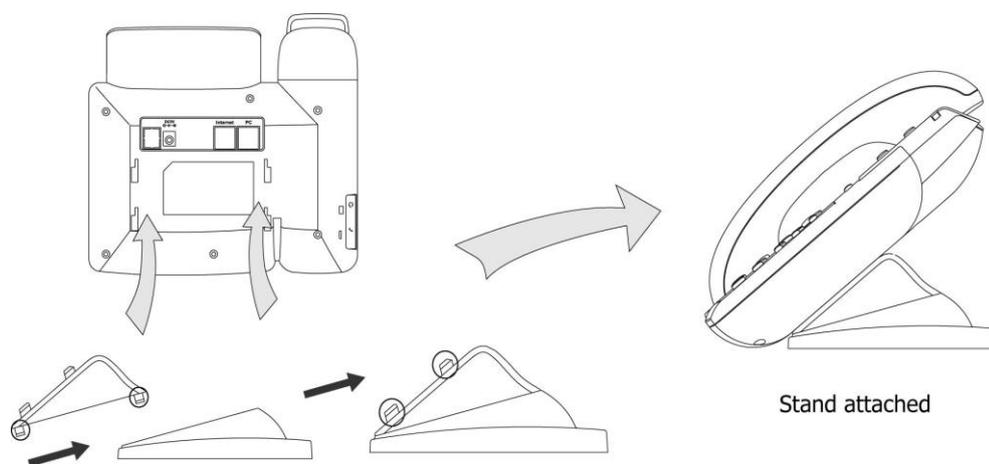
## Phone Installation

If your phone is already installed, proceed to [Phone Initialization](#) on page 13.

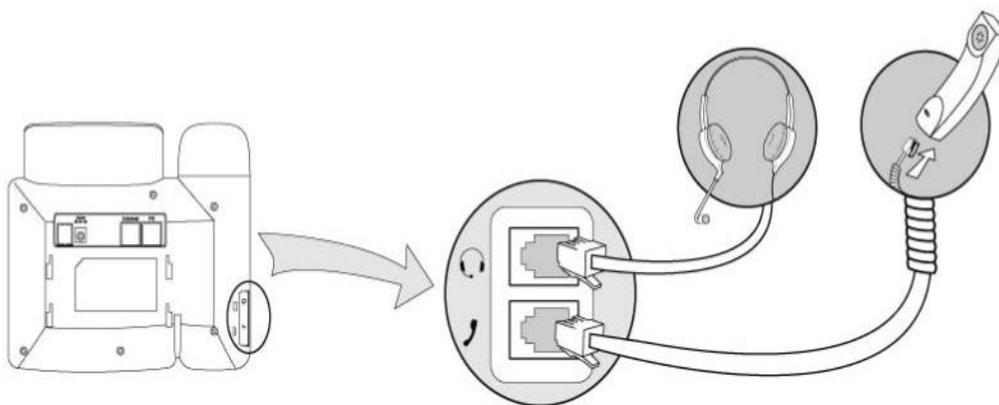
This section introduces how to install the phone with the components in the packing list:

- Attach the Stand
- Connect the Handset and optional Headset
- Connect the Network and Power

### 1) Attach the Stand:



### 2) Connect the Handset and optional Headset:



#### Note

A headset is not provided in the packing list. Contact your system administrator for more information.

### 3) Connect the Network and Power:

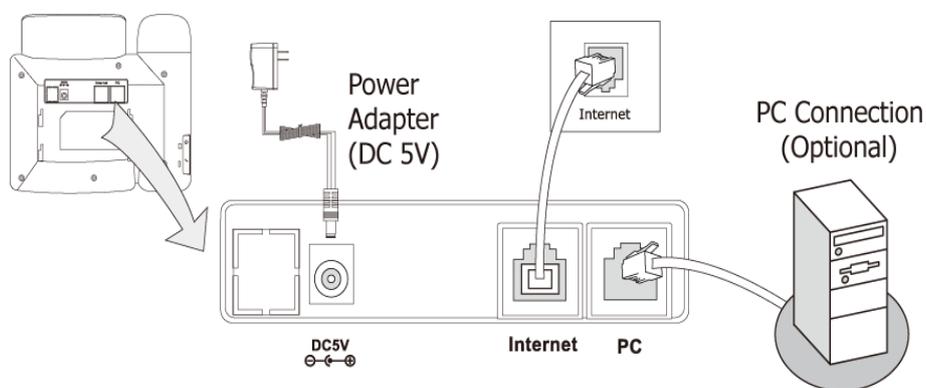
You have two options for power and network connections. Your system administrator will advise you which one to use.

- AC power
- Power over Ethernet (PoE)

#### AC Power

To connect the AC power:

1. Connect the DC plug on the power adapter to the DC5V port on the phone and connect the other end of the power adapter into an electrical power outlet.
2. Connect the supplied Ethernet cable between the Internet port on the phone and the Internet port in your network or switch/hub device port.

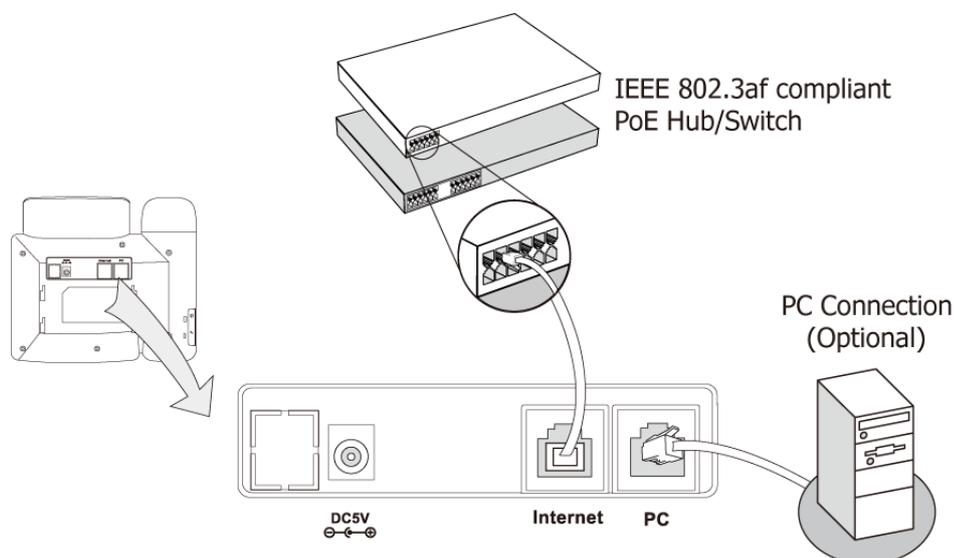


#### Power over Ethernet

Using a regular Ethernet cable, the SIP-T20P IP phone can be powered from a PoE (IEEE 802.3af) compliant switch or hub.

**To connect the PoE:**

1. Connect the Ethernet cable between the Internet port on the phone and an available port on the in-line power switch/hub.

**Note**

If in-line power is provided, you don't need to connect the AC adapter. Make sure the Ethernet cable and switch/hub is PoE compliant.

The phone can also share the network with other network device such as a PC (personal computer). It is an optional connection.

**Important!** Do not unplug or remove power to the phone while it is updating firmware and configurations.

## Phone Initialization

After your phone has been powered up, the system boots up and performs the following steps:

### Automatic Phone Initialization

The phone finishes the initialization process by loading the saved configuration. The phone LCD screen will display "Initializing, Please wait" during the initialization.

### DHCP (Dynamic Host Configuration Protocol)

By default the phone attempts to contact a DHCP server in your network in order to obtain its valid network settings, e.g. IP address, subnet mask, gateway, DNS server.

**Note**

If your network does not use DHCP, proceed to [Basic Network Settings](#) on page 14.

## Phone Status

You can view the system status of your phone via phone user interface or web user interface.

Available information of phone status includes:

- Network status including WAN port and LAN port information.
- Phone status including device model, firmware version and MAC address.
- Account status indicating the register status of sip accounts.

**To view the phone status via phone user interface:**

1. Press , or press  then select **Status**.
2. Press  or  to scroll through the list and view the specific information.

1. IP: 192.168.0.10
------------------------

**To view the phone status via web user interface:**

1. Open the web browser of your computer.
2. Enter the IP address in the browser's address bar, and then click **Enter**.
3. Enter the **User Name** (admin) and **Password** (admin) in the pop-up dialogue box.
4. Click **OK** to log in.

## Basic Network Settings

If your phone cannot contact a DHCP server for any reason, you need to configure a static IP address manually.

**To configure a static IP address via phone user interface:**

1. Press .
2. Select **Settings->Advanced** (password: admin) ->**Network->WAN Port->Static IP**.
3. Enter the parameters: IP, subnet mask, gateway, primary DNS, second DNS in the corresponding fields.

1. IP: 123
---------------

4. Press  to accept the change.

**Note**

Using the wrong network parameters may result in inaccessibility of your phone and may also have an impact on your network performance. For more information about these parameters, contact your system administrator.

## Registration

Generally, your phone will be deployed with multiple other phones. In this case, your system administrator will configure the phone parameters beforehand, so that after you start up your phone, the phone will be registered and ready to use. If your phone is not registered, you may have to register it. For more information on how to register your phone, refer to [Account Management](#) on page 33.

## Idle Screen

If the phone has successfully started up, the idle screen appears on the phone LCD screen as shown below.



The idle screen shows time and date, the label of current account.



# Customizing Your Phone

You can customize your SIP-T20P IP phone by configuring the setting for time and date, and ring tones, for example. You can handle incoming calls from different contacts in different ways.

This chapter provides basic operating instructions for customizing your phone. The topics include:

- [General Settings](#)
- [Audio Settings](#)
- [Contact Management](#)
- [Call History Management](#)
- [System Customizations](#)

If you require additional information or assistance with your new phone, contact your system administrator.

## General Settings

### Language

The default language of the phone user interface is English. The phone will detect and use the same language as which of your internet browser for the web user interface, if the language is not supported by the phone, the web user interface will use English by default. You can change the language for the phone user interface and the web user interface respectively.

#### Note

Not all languages are available for selection. The available languages depend on the language packs currently loaded to the IP phone. Please contact your system administrator for more information about the available languages of your new phone.

**To change the language for the phone user interface:**

1. Press .
2. Select **Settings->Basic->Language**.
3. Press  or  to select the desired language.

*1. English
2. Deutsch

4. Press  to accept the change.  
Text appears on the LCD screen will change to the selected language.

**To change the language for web user interface:**

1. Click on **Phone->Preference**.
2. Select the desired language from the pull-down list of **WEB Language**.
3. Click **Confirm** to accept the change.  
Text displays on the web user interface will change to the selected language.

## Time and Date

The time and date appears on the LCD screen of the SIP-T20P IP phone. If the phone cannot obtain the time and date from the Simple Network Time Protocol (SNTP) server, contact your system administrator for more information. You can configure the phone to obtain the time and date from SNTP server automatically, or configure the time and date manually.

**To configure the SNTP settings via phone user interface:**

1. Press .
2. Select **Settings->Basic->Time & Date->SNTP**.
3. Press  or  to select the time zone that applies to your area from the **Time Zone** field. The default time zone is "+8 China(Beijing)".



4. Enter the domain names or IP addresses in the **NTP Server1** and **NTP Server2** fields, respectively.
5. Press  or  to select **Automatic** from the **DST** field.
6. Press  to accept the change.

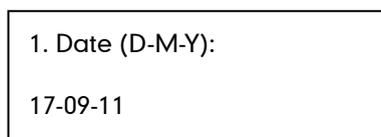
**Note**

Please refer to [Appendix A - Time Zones](#) for the list of available time zones on the IP phone.

**To configure the time and date manually via phone user interface:**

1. Press .
2. Select **Settings->Basic->Time & Date->Manual**.
3. Enter the specific date in the **Date** field.

4. Enter the specific time in the **Time** field.



5. Press  to accept the change.

The time that appears on the LCD screen will change accordingly.

**To configure the time and date format via phone user interface:**

1. Press .
2. Select **Settings->Basic->Time & Date->Time & Date.**



3. Press  or  to select the desired time format: 12 hour or 24 hour.
4. Press  to accept the change.

There are 7 date formats available, for example the date format “WWW DD MMM”: “WWW” represents the first three letters of the week, “DD” represents two-digit of the date, and the “MMM” represents the first three letters of the month.

The date formats you need to know:

Date Format	Example(2011-9-17)
WWW MMM DD	Wed Sep 17
DD-MMM-YY	17-Sep-11
YYYY-MM-DD	2011-09-17
DD/MM/YYYY	17/09/2011
MM/DD/YY	09/17/11
DD MMM YYYY	17 Sep 2011
WWW DD MMM	Wed 17 Sep

You can also configure the time settings via web user interface at the path **Phone->Preference.**

## Key as Send

You can set the “#” or “\*” to act as the send key while dialing a call.

**To set the send key via phone user interface:**

1. Press  .
2. Select **Features->Key as Send**.



3. Press  or  to select “#” or “\*” from the **Key as Send** field, or select **Disable** from the **Key as Send** field to disable this feature.
4. Press  to accept the change.

You can also configure a send key via web user interface at the path **Phone->Features**.

## Keypad Lock

You can lock the keypad of your phone when you are temporarily not using it. This feature helps you to protect your phone from unauthorized use.

This feature allows you to perform the following:

- Menu Key:** The MENU key is locked. You cannot access the menu of the phone until unlocked.
- Function Key:** The function keys are locked. You cannot use the MESSAGE, CONF, HOLD, MUTE, TRAN, RD, Directory, OK, X, Volume key, line keys and navigation keys until unlocked.
- All Keys:** All keys are locked. You are only allowed to dial emergency numbers, and answer incoming calls by lifting the handset, pressing the HEADSET key or pressing the Speakerphone key.
- Lock&Answer:** All keys are locked, except the HEADSET KEY and MENU key. Incoming calls will be answered automatically, but cannot be ended by your party. The previous conversation is placed on hold.

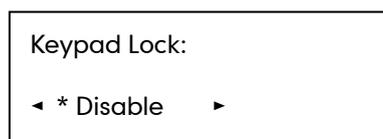
### Note

The emergency number setting, if desired, must be made before lock activation. For more information, refer to [Emergency Number](#) on page 37.

**To activate the keypad lock via phone user interface:**

1. Press  .
2. Select **Settings->Advanced** (password: admin) ->**Keypad Lock**.

- Press  or  to select desired type from the **Keypad Lock** field.



- Press  to activate the keypad lock.  
The  icon appears on the LCD screen. If the keypad lock feature is activated to be Lock&Answer, an additional icon **AA** will appear on the LCD screen.

#### To deactivate the keypad lock via phone user interface:

- Press , the LCD screen prompts for the password.
- Enter the password (admin).
- Press  to deactivate the keypad lock.  
The  icon disappears from the LCD screen. If you want to deactivate the keypad lock type of Lock&Answer, you should press , select **Settings->Advanced** (password: admin) ->**Keypad Lock**, and then select **Disable** from the **Keypad Lock** field.

You can also activate or deactivate the keypad lock via web user interface at the path **Phone->Preference**.

**Note** The default password for unlock is admin.

## Audio Settings

### Volume

You can press the Volume key to adjust the receiver volume of currently used audio devices (handset, speakerphone or headset), when the phone is in the dialing interface or during a call. You can also press the Volume key to adjust the ringer volume when the phone is idle.

#### To adjust the volume via phone user interface:

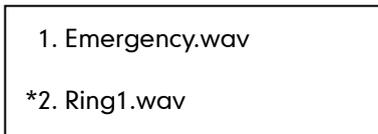
- Press .
- Select **Settings->Basic ->Phone Volume**.
- Select the **Handset Vol, Speaker Vol, Headset Vol** or **Ringer Vol**, and then press .
- Press ,  or  to adjust the volume.
- Press  to accept the change.

## Ring Tones

Ring tones are used to indicate incoming calls. You can select different ring tones to distinguish the accounts or to distinguish your phone from your neighbor's.

**To select a ring tone for the phone via phone user interface:**

1. Press .
2. Select **Settings->Basic ->Ring Tones**.
3. Press  or  to select the desired ring tone.



4. Press  to accept the change.

**To select a ring tone for the phone via web user interface:**

1. Click on **Phone->Preference**.
2. Select the desired ring tone from the pull-down list of **Ring Tones**.
3. Click **Confirm** to accept the change.

**To select a ring tone for each account via web user interface:**

1. Click on **Account**.
2. Select the account from the pull-down list of **Account**.
3. Select the desired ring tone from the pull-down list of **Ring tones**.

If **common** is selected, this account will use the ring tone selected for the phone at **Phone->Preference**. Refer to the instruction above.

4. Click **Confirm** to accept the change.

You can also customize ring tones for your phone, contact your system administrator for more information.

### Note

The ring tone for an incoming call on the phone may be different. For example, when the phone receives an incoming call from a contact stored in the local directory, it will play the ring tone assigned to the contact in the contact directory (refer to [Adding Contacts](#) in the Contact Management section). Otherwise, the phone will play the ring tone assigned to the account. If both the contact ring tone and the account ring tone are not assigned, then the phone will play the ring tone assigned to the phone.

## Contact Management

This section provides the operating instructions for managing contacts. The topics include:

- [Local Directory](#)
- [Blacklist](#)

### Local Directory

The built-in phone directory stores the names and phone numbers of your contacts. You can store up to 300 contacts in your phone's local directory. You can add, edit, delete or search for a contact in the local directory. You can also dial a contact from the local directory.

### Adding Contacts

You can add contacts to your local directory in the following ways:

- Manually
- From call history

#### Adding Contacts Manually

To add a contact to the local directory manually:

1. Press .
2. Select **Local Directory**.
3. Select the desired contact group (For example, select **Contact List**).
4. Press  or  to select **Enter** and then press .
5. Press  or  to scroll to **New Item**.
6. Press  to add a new contact.

1. Name: abc

7. Press  to switch the input mode.
8. Enter the **Name** and the **Office**, **Mobile** or **Other** numbers.
9. Press  or  to select the desired account from the **Account** field. If **Auto** is selected, the phone will use the first available account when placing calls to the contact from the local directory.

10. Press  or  to select the desired ring tone from the **Ring Tones** field.
11. Press  to accept the change.

**Note**

If the contact has existed in the directory, the LCD screen prompts “Name Existed in Contactlist!”.

### Adding Contacts from Call History

To add a contact to the local directory from the call history:

1. Press .
2. Press  or  to highlight the desired entry.
3. Press .
4. Press  to switch the input mode, and enter the contact name in the **Name** field.

1. Name: Empty

abc

5. Press  to accept the change.  
The entry is successfully saved in the local directory.

### Editing Contacts

To edit a contact in the local directory:

1. Press .
2. Select **Local Directory->Contact List**.
3. Press  or  to select **Enter** and then press .
4. Select the desired contact and press  or  to select **Edit**.

1. Name: john

abc

5. Press  or  to highlight the contact information and then edit.
6. Press  to accept the change.

## Deleting Contacts

To delete a contact from the local directory:

1. Press .
2. Select **Local Directory->Contact List**.
3. Press  or  to select **Enter** and then press .
4. Press  or  to highlight the desired contact.
5. Press  or  to select **Delete** and then press .
 

The LCD screen prompts “Delete Selected Item?”.
6. Press  to confirm the deleting.

## Placing Calls to Contacts

To place a call to a contact in the local directory:

1. Press .
2. Select **Local Directory->Contact List**.
3. Press  or  to select **Enter** and then press .
4. Press  or  to highlight the desired contact.
5. Press  or  to select **Dial** and then press  to dial out.

## Searching for Contacts

To search for a contact in the local directory:

1. Press .
2. Select **Local Directory->Contact List**.
3. Press  or  to select **Enter** and then press .
4. Enter a few continuous characters of the contact name or continuous numbers of the contact phone number using the keypad.

Search: tom

abc

5. Press .

The contacts whose name or phone number matches the characters you entered will appear on the LCD screen. You can dial from the query result.

## Importing/Exporting Contact lists

You can manage your phone's local directory via phone or web user interface. But you can only import or export the contact list via web user interface.

### To import an XML file of contact list via web user interface:

1. Click on **Contacts->Local Directory**.
2. Click **Browse** to select a contact list file (file format must be .xml) from your local system.
3. Click **Import XML** to import the contact list.  
The web user interface prompts "The original contact will be covered, continue?".
4. Click **OK** to complete importing the contact list.

### To import a CSV file of contact list via web user interface:

1. Click on **Contacts->Local Directory**.
2. Click **Browse** to select a contact list file (file format must be .csv) from your local system.
3. Click **Import CSV** to import the contact list.  
You can then select whether to delete all old contacts while importing the contact list, and select the contact information you want to import into the local directory. Such as contact name, office number or mobile number.
4. Click **Import** to complete importing the contact list.

### To export contact list via web user interface:

1. Click on **Contacts->Local Directory**.
2. Click **Export XML** (or **Export CSV**).
3. Click **Save** to save the contact list to your local system.

## Blacklist

The built-in phone directory stores the names and phone numbers of the blacklist. You can store up to 30 contacts in your phone's blacklist directory. You can add, edit, delete or search for a contact in the blacklist directory. You can also dial a contact in the blacklist directory, but an incoming call from the blacklist directory will be rejected automatically.

Operating instructions of adding blacklists, editing blacklists, deleting blacklists, placing call to blacklists and searching for a contact in the blacklist, refer to the operating instructions of [Local Directory](#) on page 23.

## Call History Management

The SIP-T20P IP phone maintains call history lists of Dialed Calls, Received Calls, Missed Calls and Forwarded Calls. The call history list supports up to 100 entries in all. You can check the call history, dial a call, add a contact or delete an entry from the call history list.

### To check the call history:

1. Press  .  
The LCD screen displays the call list.
2. Press  or  to switch between **Dialed Calls, Received Calls, Missed Calls** and **Forwarded Calls**.
3. Press  or  to select the desired entry.
4. Press  .  
The detailed information of the entry appears on the LCD screen.

### To dial a call from the call history list:

1. Press  .  
The LCD screen displays the call list.
2. Press  or  to switch between **Dialed Calls, Received Calls, Missed Calls** and **Forwarded Calls**.
3. Press  or  to select the desired entry.
4. Press  to dial out.

### To add a contact from the call history list:

1. Press  .  
The LCD screen displays the call list.
2. Press  or  to switch between **Dialed Calls, Received Calls, Missed Calls** and **Forwarded Calls**.
3. Press  or  to select the desired entry.
4. Press  .
5. Enter the name and then press  .

For more information, refer to [Contact Management](#) on page 23.

### To delete an entry from the call history list:

1. Press  .  
The LCD screen displays the call list.
2. Press  or  to switch between **Dialed Calls, Received Calls, Missed Calls** and **Forwarded Calls**.
3. Press  or  to select the desired entry.

4. Press  to delete the entry.

## System Customizations

### Logo Customization

You can customize text logo which would be shown on the idle screen.

**To customize a text logo via web user interface:**

1. Click on **Phone->Features**.
2. Select **Enable** from the pull-down list of **Use Logo**.
3. Enter the desired text in the **Text Logo** field.
4. Click **Confirm** to accept the change.
5. Reboot the phone, the text logo will be shown on the LCD screen after rebooting.

**Note** The maximum length of text logo is 15 characters.

### Headset Use

Physically connect your headset, refer to [Phone Installation](#) on page 11 and activate/deactivate it for use.

### Headset Activation/Deactivation

**To activate the headset:**

1. Press  on the phone.

The  icon on the LCD screen indicates that the headset mode is activated. Press the line key to receive a call, the call will connect to your headset automatically.

**To deactivate the headset:**

1. Press  again on the phone.

The headset icon disappears when the headset mode is deactivated.

### Headset Prior

You can use headset in priority when enabling the headset prior feature. This feature is especially useful for permanent or full-time headset users.

**To enable the Headset Prior via web user interface:**

1. Click on **Phone->Features**.
2. Select **Enabled** from the pull-down list of **Headset Prior**.
3. Click **Confirm** to accept the change.

**To use headset prior, you should activate the headset mode in advance:**

1. Physically connect the headset.
2. Press  to activate the headset mode.

#### Note

If headset prior feature is enabled, the headset mode will not be deactivated until you press the HEADSET key again.

## Dual Headset

You can use two headsets when enabling the dual headset feature. To use this feature, you must physically connect headsets both to the headset jack and handset jack respectively. Once the phone joins in a call, people with the headset connected to the headset jack has a full-duplex conversation, another people with the headset connected to the handset jack is only allowed to listen to.

**To enable Dual Headset via web user interface:**

1. Click on **Phone->Features**.
2. Select **Enabled** from the pull-down list of **Dual Headset**.
3. Click **Confirm** to accept the change.

## DSS Keys

There are two types of DSS keys: Line Keys and Programmable Keys. The details will be introduced as following. SIP-T20P IP phone supports 2 Line keys.

### Line Keys

You can assign predefined functionalities to the line keys located on the right of the phone. Line keys allow you to use quick access features such as Call Return or Voice Mail. The line keys LEDs will indicate the extension status when being assigned specific feature, such as BLF or Shared Line. The default key type of each line key is Line.

**To configure the line key via phone user interface:**

1. Press .
2. Select **Features->DSS Keys**.

3. Select the desired DSS key, and then press  .
4. Select the desired type from the **Type** field.
5. (Optional.) Select the desired key event from the **Key Type** field.
6. (Optional.) Select the desired line from the **Account ID** field.
7. (Optional.) Enter the corresponding value in the **Extension** field.
8. Press  to accept the change.

You can also configure the line key via web user interface at the path **Phone->DSS Keys->Line Keys**.

The line key features are explained in the following subchapters in detail:

- Speed Dial
- DTMF
- Prefix
- Conference
- Forward
- Transfer
- Hold
- DND
- Redial
- Group Listening

For more information, contact your system administrator.

### Speed Dial

You can use this key feature to speed up dialing the numbers often used or hard to remember.

**Dependencies:** *Type (Speed Dial)*

*Value (the number you want to dial out)*

*Line (the account this feature will be applied to)*

**Usage:** Press the DSS key to dial out the number specified in the **Value** field, using the account selected from the **Account ID** field.

### DTMF

You can use this key feature to send the specification of arbitrary key sequences via DTMF.

**Dependencies:** *Type (Key Event)*

*Key Type (DTMF)*

*Value (DTMF sequence)*

#### Note

DTMF sequence is allowed to be: "0-9", "\*", "#", and "A-D".

**Usage:** Press the DSS key during an active call to send the key sequence specified in the **Value** field.

### Prefix

You can use this key feature to place a call with a specified prefix number.

**Dependencies:** *Type (Key Event)*

*Key Type (Prefix)*

*Value (the prefix number)*

**Usage:** Press the DSS key when the phone is idle, the phone will be ready to make a new call and show up the prefix number which you specified in the **Value** field, enter other digits to dial out.

### Conference

You can use this key feature to set up a conference call. For more information, refer to [Conference](#) on Page 48.

**Dependencies:** *Type (Key Event)*

*Key Type (Conf)*

*Value (the number you want to add to the conference)*

**Usage:** Press the DSS key during an active call to set up a conference with the number specified in the **Value** field.

### Note

When leaving the **Value** field blank, the DSS key performs the same as the **CONF** key during a call.

### Forward

You can use this key feature to forward an incoming call to someone else. For more information, refer to [Call Forward](#) on page 45.

**Dependencies:** *Type (Key Event)*

*Key Type (Forward)*

*Value (the number you want to forward to)*

**Usage:** Press the DSS key to forward an incoming call to the number specified in the **Value** field.

### Note

When leaving the **Value** field blank, the DSS key performs the same as the **TRAN** key when receiving an incoming call.

### Transfer

You can use this key feature to perform a Blind/Attended/Semi-Attended Transfer during a call. For more information, refer to [Call Transfer](#) on page 47.

**Dependencies:** *Type (Key Event)*

*Key Type (Tran)*

*Value (the number you want to transfer to)*

**Usage:** Press the DSS key during a call to blind transfer to the number specified in the **Value** field.

**Note**

The DSS key performs as a **TRAN** key when leaving the **Value** field blank.

**Hold**

You can use this key feature to hold an active call or retrieve a held call.

**Dependencies:** *Type (Key Event)*

*Key Type (Hold)*

**Usage:**

1. Press the DSS key during an active call to place the call on hold.
2. Press the DSS key again to retrieve the held call.

**DND**

You can use this key feature to activate or deactivate the DND mode.

**Dependencies:** *Type (Key Event)*

*Key Type (DND)*

**Usage:**

1. Press the DSS key to activate the DND mode.
2. Press the DSS key again to deactivate the DND mode.

**Note**

When the DND mode is activated, all incoming calls will be rejected automatically.

**Redial**

You can use this key feature to access the **Dialed Call** list by pressing the DSS key when the phone is idle, then you can select an entry to redial.

**Dependencies:** *Type (Key Event)*

*Key Type (Redial)*

**Usage:**

1. Press the DSS key when the phone is idle to access the dialed calls list.
2. Select an entry and press the DSS key again to redial the call.

**Group Listening**

You can use this key feature to activate the Speakerphone and Handset/Headset mode at the same time. It is suitable for the group conversation which has more than one person at one side. You are able to speak and listen through the handset/headset, meanwhile the others nearby can only listen through the speaker.

Dependencies: *Type (Key Event)*

*Key Type (Group Listening)*

Usage:

1. During a call, press the DSS key to activate group listening mode.  
You can then speak and listen through the handset/headset, other people at your side can listen through speaker at the same time.
2. Press the DSS key again to deactivate group listening mode.

## Programmable Keys

You can customize the navigation keys, HOLD, CONF, TRAN keys on the keypad.

To customize the programmable keys via web user interface:

1. Click on **Phone->DSS Keys->Programmable Keys**.
2. Customize specific features for these keys.
3. Click **Confirm** to accept the change.

### Note

You can configure the programmable keys via web user interface only.

## Account Management

You can register one or multiple accounts on the SIP-T20P IP phone. You can also configure each line key associated with an account or configure multiple line keys associated with an account.

## Account Registration

To register an account via phone user interface:

1. Press  .
2. Select **Settings->Advanced->Accounts**.
3. Select the desired line.
4. Select **Enable** from the **Activation** field.
5. Enter the **Label, Display Name, Register Name, User Name, Password** and **SIP Server** respectively. Contact your system administrator for more information.
6. Press  to accept the change.

To disable an account via phone user interface:

1. Press  .
2. Select **Settings->Advanced ->Accounts**.

3. Select the desired line.
4. Select **Disable** from the **Activation** field.
5. Press  to accept the change.

## Multiple Line Keys per Account

You can configure multiple line keys associated with an account. This enhances call visualization and simplifies call handling.

Incoming calls to this line will be distributed evenly among the available line keys. Similarly, outgoing calls will be distributed.

Your phone can be configured to have a combination of lines with a single line key and lines with multiple line keys.

## Dial Plan

Dial plan is a string of characters that governs the way your SIP-T20P IP phone processes the inputs received from your phone keypad. The SIP-T20P IP phone supports the following dial plan features:

- [Replace Rule](#)
- [Dial-now](#)
- [Area Code](#)
- [Block Out](#)

The basic expression syntax you need to know:

.	The dot "." can be used as a placeholder or multiple placeholders for any character. Example: "12." would match "123", "1234", "12345", etc.
x	An "x" can be used as a placeholder for any character. Example: "12x" would match "121", "122", "123", etc.
[]	The square brackets "[]" can be used as a placeholder for a single character which matches any of a set of characters. Example: "91[3-8][0-9]1234" would match "91301234", "91591234", "91851234", etc.
()	The parentheses "()" can be used to group together patterns, for instance, to logically combine two or more patterns. Example: "([1-9])([2-7])(.)" would match "921", "15789", "339759", etc.
\$	Followed by the sequence number of a pattern. Example: A replace rule configuration: Prefix: "9[5-7](.)", Replace: "5\$1". When you enter "95123" to dial out on your phone, the number will be replaced as "5123" and then dialed out.

### Note

You can configure the dial plan rules via web user interface only.

## Replace Rule

You can configure one or more replace rules to remove the specified string and replace it with another string. You can configure a pattern with wildcards (expression syntax refer to the table above), so that any string that matches the pattern will be replaced. This feature is designed for convenience when you try to dial out a number. For example, a replace rule is configured as "Prefix: 1" and "Replace: 1234567", then when you try to dial out the number "1234567", you just need to enter "1" on the phone and then press the OK key to dial out.

### To add a replace rule via web user interface:

1. Click on **Phone->Dial Plan->Replace Rule**.
2. Enter the string (e.g. 2xx) in the **Prefix** field.
3. Enter the string (e.g. 12345) in the **Replace** field.
4. Enter the desired line ID in the **Account** field or leave it blank.
5. Click **Add** to add the replace rule.

When you enter the number "234" using the keypad and then dial out, the phone will dial out "12345" instead.

### Note

The valid value of **Account** field can be one or more digits among 1, 2, 3, 4, 5 and 6. Each digit must be separated by a ",". For example: when you enter the value "1, 2" in the **Account** field, this replace rule will apply to account1 and account2.

If you leave the **Account** field blank or enter an invalid value, then the replace rule will apply to all accounts.

### To edit a replace rule via web user interface:

1. Click on **Phone->Dial Plan->Replace Rule**.
2. Select the desired replace rule by checking the check box.
3. Edit the values in the **Prefix** and **Replace** fields.
4. Enter the desired line ID in the **Account** field or leave it blank.
5. Click **Edit** to accept the change.

### To delete one or more replace rules via web user interface:

1. Click on **Phone->Dial Plan->Replace Rule**.
2. Select one or more replace rules by checking the check box(es).
3. Click **Del** to delete the replace rule(s).

## Dial-now

You can configure one or more dial-now rules on your phone. When the dialed out number matches the dial-now string, the number will be dialed out automatically. For example, a dial-now rule is configured as “2xx”, then entering any three-digit string begins with 2 will be dialed out automatically on the phone.

### To add dial-now rule via web user interface:

1. Click on **Phone->Dial Plan->Dial now**.
2. Enter the desired value (e.g. 1234) in the **Dial-now Rule** field.
3. Enter the desired line ID in the **Account** field or leave it blank.
4. Click **Add** to add the dial-now rule.

When you enter the number “1234” using the keypad, the phone will dial out “1234” automatically without pressing any key.

### Note

You can also edit or delete the dial-now rule, refer to [Replace Rule](#) on page 35 for more information.

### Time Out for Dial-now Rule

You can configure the interval for dial-now rules. That is, you can configure your phone to dial out the phone number, which matches a dial-now rule, in a fixed time.

### To configure the timeout for dial-now rule via web user interface:

1. Click on **Phone->Features**.
2. Enter the desired time within 0-14 (in seconds) in the **Time Out for Dial-now Rule** field.
3. Click **Confirm** to accept the change.

## Area Code

Area codes are also known as Numbering Plan Areas (NPAs). They usually indicate geographical areas in a country. This feature is necessary only when dialing outside the code area. For example, area code is configured as “code: 011, Min Length: 4, Max Length: 11”, then when you dial out the number “56789”, the phone will add the area code and dial out the number “01156789”.

### To configure the area code and lengths via web user interface:

1. Click on **Phone->Dial Plan->Area Code**.
2. Enter the desired values in the **Code**, **Min Length** and **Max Length** fields.
3. Enter the desired line ID in the **Account** field or leave it blank.
4. Click **Confirm** to accept the change.

### Note

The default values of minimum and maximum lengths are 1 and 15 respectively.

## Block Out

You can block the dialing of specific numbers. When you dial a block out number on your phone, the dialing will fail and the LCD screen will prompt “Forbidden Number”.

**To add a block out number via web user interface:**

1. Click on **Phone->Dial Plan->Block Out**.
2. Enter the desired value in the **Block Out Number** field.
3. Enter the desired line ID in the **Account** field or leave it blank.
4. Click **Add** to add the block out number.

## Emergency Number

Public telephone networks in countries around the world have a single emergency telephone number (emergency services number), that allows a caller to contact local emergency services for assistance when required. The emergency telephone number may differ from country to country. It is typically a three-digit number so that it can be easily remembered and dialed quickly. Some countries have a different emergency number for each of the different emergency services.

You can specify the emergency telephone numbers on the IP phone for contacting the emergency services in an emergency situation.

### Note

Contact your local phone service provider for available emergency numbers in your area.

**To specify emergency numbers via web user interface:**

1. Click on **Phone->Features**.
2. Enter the emergency services number in the **Emergency** field. For multiple numbers, enter a “,” between each emergency number (Default for this field is blank).
3. Click **Confirm** to accept the change.

## Live Dialpad

You can enable the live dialpad feature on the SIP-T20P IP phone, which enables the IP phone to automatically dial out the phone number without pressing any other key. You can also configure a period of time before automatically dialing out the phone number.

**To enable the live dialpad via web user interface:**

1. Click on **Phone->Preference**.
2. Select **Enable** from the pull-down list of **Live Dialpad**.

3. Enter the desired delay time (0~14s) in the **Inter Digit Time** field.
4. Click **Confirm** to accept the change.

**Note**

The default delay time of live dialpad is 4s.  
You can configure live dialpad via web user interface only.

## Hot Line

You can dial a hotline number immediately once you lift the handset, press the speakerphone key or press a line key. You can also configure to dial out the hotline number in a period of time, the phone will dial out the hotline number automatically after the specified delay time.

**To configure the hot line number via phone user interface:**

1. Press  .
2. Select **Features->Hot Line**.
3. Enter the desired numbers in the **Number** field.
4. Enter the delay time (seconds, default value is 4s) in the **HotLine Delay** field.

1. Hot Number:  123
---------------------------

5. Press  to accept the change.

You can also configure hot line via web user interface at the path **Phone->Features**.

## Basic Call Features

---

The SIP-T20P IP phone is designed to be easily used like a regular phone on a public switched telephone network (PSTN). You can place calls, answer calls, transfer a call to someone else, or conduct a conference call.

This chapter provides basic operating instructions for the SIP-T20P IP phone. The topics include:

- [Placing Calls](#)
- [Answering Calls](#)
- [Ending Calls](#)
- [Redialing Numbers](#)
- [Call Return](#)
- [Call Mute](#)
- [Call Hold/Resume](#)
- [Do Not Disturb \(DND\)](#)
- [Call Forward](#)
- [Call Transfer](#)
- [Conference](#)
- [Call Park](#)
- [Call Pickup](#)
- [Anonymous Call](#)
- [Anonymous Call Rejection](#)

If you require additional information or assistance with your new phone, contact your system administrator.

## Placing Calls

You can place a call in three ways using your SIP-T20P IP phone:

- Using the handset
- Using the speakerphone
- Using the headset

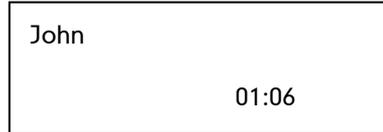
You can also dial the number first, and then choose the way you want to speak to the other party.

You can search the call history, the local contact directory and dial from the search

results. For more information, refer to [Contact Management](#) on page 23 and [Call History Management](#) on page 27.

During a call, you can alternate between Speakerphone, Headset, or Handset modes by pressing the Speakerphone key, HEADSET key, or picking up the handset.

The call duration of active calls is visible on the LCD screen. In the figure below, the call to John has lasted 1 minute and 6 seconds.



**To place a call using the handset:**

1. Pick up the handset.
2. Enter the desired number using the keypad.
3. Press  or .

By default, the # key is set as send. You can set the \* key as send key or set neither of them as send keys. For more information, refer to [Key as Send](#) on page 20.

**Note**

You can also dial using the SIP URI or IP address. To obtain the IP address of your phone, press the **OK** key. The maximum SIP URI or IP address length is 32 characters. For example, 192.168.1.15, sip:2210@sip.com.

Your phone may not support direct IP dialing. Contact your system administrator for more information.

**To place a call using the hands-free speakerphone mode:**

Do one of the following:

- With the handset on-hook, press  or the line key to obtain a dial tone.  
Enter the desired number using the keypad.  
Press  or .
- With the handset on-hook, enter the desired number using the keypad.  
Press ,  or .

**To place a call using the headset:**

Do one of the following:

- With the optional headset connected, press  to activate headset mode.  
Press the line key to obtain a dial tone.  
Enter the desired number using the keypad.  
Press  or .
- With the optional headset connected, press  to activate headset mode.

Enter the desired number using the keypad.

Press  or .

### Note

To permanently enable your headset, refer to [Headset Prior](#) on page 28.

### To place multiple calls:

You can have more than one call on your SIP-T20P IP phone. To place a new call during an active call, do one of the following:

- Press the line key.

The active call is placed on hold.

Enter the desired number using the keypad.

Press ,  or .

You can press  or  to switch between the calls, and then press  again to resume the desired call.

## Answering Calls

When you are not in another call, you can answer a call in three ways:

- Using the handset
- Using the speakerphone
- Using the headset

### Note

You can ignore incoming calls by pressing the **X** key. You can also activate Do Not Disturb mode to ignore all incoming calls without ring on your phone. For more information, refer to [Do Not Disturb \(DND\)](#) on page 44.

You can forward incoming calls to someone else by pressing the **TRAN** key. For more information, refer to [Call Forward](#) on page 45.

### Answering When Not in Another Call

In all cases, the active call will appear on the LCD screen showing call duration and destination.

#### To answer a call using the handset:

1. Pick up the handset.

#### To answer a call using the hands-free speakerphone mode:

Do one of the following:

- Press .
- With the handset on-hook and headset mode deactivated, press .

- With the handset on-hook and headset mode deactivated, press the line key (the line LED flashes green).

**To answer a call using the headset:**

Do one of the following:

- Press  .
- With the headset mode activated, press  .
- With the headset mode activated, press the line key (the line LED flashes green).

**Answering When in Another Call**

If you have an active call, and an incoming call arrives on the phone, do one of the following:

- Press  .  
The incoming call is answered and the original call is placed on hold.
- Press  to access the new call.  
Press  .  
The incoming call is answered and the original call is placed on hold.

## Ending Calls

**To end a call:**

Do one of the following:

- If you are using the handset, hangs up the handset or press  .
- If you are using a headset, press  .
- If you are using the speakerphone, press  or  .

**Note**

To end a call placed on hold, you should press the **HOLD** key to resume the call firstly before ending it.

## Redialing Numbers

**To redial the last placed call from your phone:**

2. Press  twice.  
A call to your last placed call is attempted.

**To redial a previously placed call from your phone:**

1. Press  when the phone is idle.

- Press  or  to select the desired entry from the dialed calls list, and then press  or .

## Call Return

You can press a call return key to place a call back to the last incoming call.

**To configure a call return key via phone user interface:**

- Press .
- Select **Features->DSS Keys**.
- Select a desired DSS key.
- Press  or  to select **Key Event** from the **Type** field.
- Press  or  to select **Call Return** from the **Key Type** field.



- Press  to accept the change.

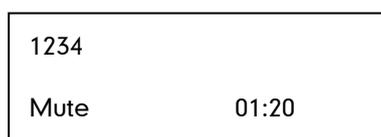
You can also configure a call return key via web user interface at the path **Phone->DSS Keys**.

## Call Mute

You can mute the microphone of the active audio device during an active call, then the other party cannot hear you.

**To mute a call:**

- Press  during an active call.  
The phone LCD screen indicates that the call is on mute.



**To un-mute a call:**

- Press  again to un-mute a call.

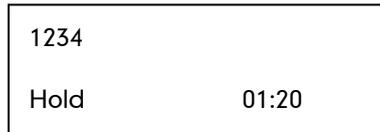
## Call Hold/Resume

You can place an active call on hold. At any time, at most one active call can be in progress on your phone, other calls can be received and made while placing the original call on hold. When placing a call on hold, your IP PBX might play a melody or message to the other party while waiting.

### To place a call on hold:

1. Press  during a call.

The phone LCD screen shows the call is on hold and the line LED flashes green.



### Note

The phone will beep softly every 30 seconds to remind you that you still have a call on hold.

### To resume a held call:

1. Press  again.

### Multiple Calls on Hold:

If multiple calls are placed on hold, press  or  to switch between the calls, and then press  to retrieve the desired call.

If more than two calls are on hold, an indication appears on the LCD screen, for example "1/3", indicating that this is the first call out of three calls.

If multiple calls are on hold on more than one line keys, you can view the details of the calls by pressing the corresponding line key, and then press  to retrieve the call.

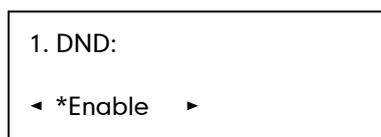
## Do Not Disturb (DND)

You can enable or disable the Do Not Disturb (DND) mode on the phone. If DND mode is enabled, the phone will reject all incoming calls automatically, and the callers hear a busy signal or a message, depending on how your system administrator set up the configuration server.

### To activate DND mode on the SIP-T20P IP phone:

1. Press .
2. Select **Features->DND**.

3. Select **Enable** from the **DND** field.



4. (Optional.) Enter the on code or off code respectively in the **DND ON Code** or **DND Off Code** field.
5. Press  to accept the change.

The **DND** icon on the LCD screen indicates that Do Not Disturb is enabled.

Incoming calls will be rejected automatically and “n New Missed Call” (‘n’ indicates the number of the missed call) will prompt on the LCD screen.

#### Note

The Do Not Disturb feature is local to the phone, and may be overridden by the server settings. For more information, contact your system administrator.

## Call Forward

You can configure your phone to forward incoming calls to another party by the Static Forwarding. You can also forward calls while your phone rings, refer to the Dynamic Forwarding.

### Static Forwarding

To enable call forward:

1. Press .
2. Select **Features->Forward**.
3. Press  or  to select the forwarding type, and then press . The options are:

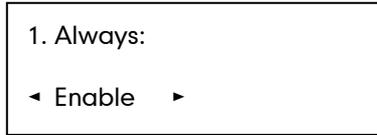
**Always:** Incoming calls are immediately forwarded.

**Busy:** Incoming calls are immediately forwarded if the phone is busy.

**No Answer:** Incoming calls are forwarded if not answered after a period of time.

4. Depending on your selection:
  - a.) If you select **Always**:
    - 1) Press  or  to select **Enable** from the **Always** field.
    - 2) Enter the destination number you want to forward all incoming calls to in the **Forward to** field.

- 3) (Optional.) Enter the always forward on code or always off code respectively in the **On Code** or **Off Code** field.



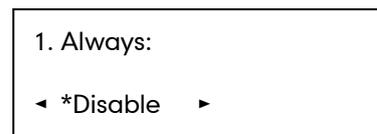
b.) If you selected **Busy**:

- 1) Press ◀ or ▶ to select **Enable** from the **Busy** field.
- 2) Enter the destination number you want to forward all incoming calls to when the phone is busy in the **Forward to** field.
- 3) (Optional.) Enter the busy forward on code or busy off code respectively in the **On Code** or **Off Code** field.



c.) If you selected **No Answer**:

- 1) Press ◀ or ▶ to select **Enable** from the **No Answer** field.
- 2) Enter the destination number you want to forward all unanswered incoming calls to in the **Forward to** field.
- 3) Press ◀ or ▶ to select the ring time to wait before forwarding in the **After Duration** field (The default ring time is 60 seconds).
- 4) (Optional.) Enter the no answer forward on code or off code respectively in the **On Code** or **Off Code** field.



5. Press **OK** to accept the change.

The  icon on the LCD screen indicates that call forward is enabled.

You can also configure forward feature via web user interface at the path **Phone->Features**.

**Note**

You can also enter the SIP URL or IP address in the **Forward to** field. For more information on using the SIP URL or IP address, refer to [Placing Calls](#) on page 39.

Call forward feature is local to the phone, and may be overridden by the server settings. Call forward on code or off code may be different between servers. For more information, contact your system administrator.

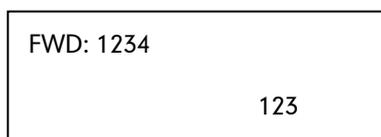
**To disable call forward:**

Do one of the following:

- Press  when the phone is idle.
- Press , select **Features->Forward**.  
Press  or  to select the forwarding type, then press .  
Press  or  to select **Disable** to disable the call forward.

**Dynamic Forwarding****To forward an incoming call to another party:**

1. When the phone rings, press .
2. Enter the number you want to forward the incoming call to.



3. Press  or .

The LCD screen prompts a call forwarded message.

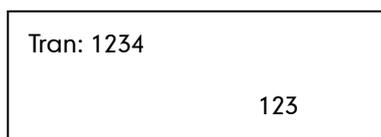
**Call Transfer**

You can transfer a call to another party in one of the three ways:

- **Blind Transfer:** Transfer a call directly to another party without consulting.
- **Semi-Attended Transfer:** Transfer a call when the target phone is ringing.
- **Attended Transfer:** Transfer a call with prior consulting.

**To perform a blind transfer:**

1. Press  during a call.
2. Enter the number you want to transfer the call to.



3. Press  again to complete the transfer.

Then the call is connected to the number to which you are transferring.

**To perform a semi-attended transfer:**

1. Press  during a call.
2. Enter the number you want to transfer the call to.
3. Press  or  to dial out.
4. Press  to complete the transfer when receiving ringback.

**To perform an attended transfer:**

1. Press  during a call.
2. Enter the number you want to transfer the call to.
3. Press  or  to dial out.
4. After the party answers the call, press  to complete the transfer.

If you are using a handset, the transfer can be completed by hanging up the handset.

You can cancel the transfer before the call connects by pressing .

## Conference

You can create a conference with other parties using the phone's local conference feature. You can create a conference between an active call and a call on hold (on the same or another line) by pressing the CONF key. The network conference feature allows you to add specific conference parties.

**Note**

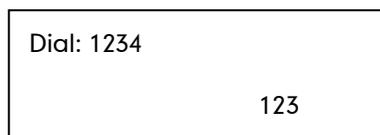
The network conference feature is not available on all servers. For more information, contact your system administrator.

## Local Conference

The SIP-T20P IP phone supports up to 3 parties (including yourself) in a conference call. This is called Local Conference and is the default method of conference.

**To set up a local conference call:**

1. Place a call to the first party.
2. Press  to create a new call.  
The active call is placed on hold.
3. Enter the number of second party and press  or .



4. When the second party answers the call, you can consult with him or her before

adding to the conference.

5. Press  again to join all parties in the conference.

#### To join two calls in a conference:

1. Place two calls using two different accounts on the phone (for example, place the first call using account 1, and then place the second call using account 2).
2. Press  or  to select the call for conference and make sure the call is active (for example, select the call on account 1).
3. Press  to join the two calls in the conference on account 1.

You can press  to place the conference on hold. You can press the **CONF** key to split the conference call into two individual calls. To drop the conference call, press .

## Network Conference

You can use network conference feature on the SIP-T20P IP phone to conduct a conference with multiple participants.

This feature allows you to perform the following:

- Join two calls together into a conference call.
- Invite another party into an active conference call.

To use this feature, contact your system administrator for the network conference-URI in advance, and configure the phone via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired conference type from the pull-down list of **Conference Type**.
3. Enter the conference URI (e.g. conference@example.com) in the **Conference URI** field.
4. Click **Confirm** to accept the change.

#### To set up a network conference call:

1. Place a call to the first party.
2. Press  to create a new call.  
The active call is placed on hold.
3. Enter the second party's number and press  or .
4. When the second party answers the call, press  to add the second party to the conference.
5. Press  to create a new call.  
The conference is placed on hold.
6. Enter the number of the new party and then press  or .
7. When the new party answers the call, press  to add the new party to the

conference.

- Repeat steps 5 to 7 until you have added all intended parties.

The procedures to set up a network conference call for specific servers may be different from that introduced above. Contact your system administrator for more information.

## Call Park

You can use call park feature to place a call on hold, and then retrieve the call from another phone in the system (for example, a phone in another office or conference room). You can park the active call by pressing the call park key on the phone. If the call is parked successfully, the response is either a voice prompt confirming that the call was parked, or a visible indication on the LCD screen. When the call is parked successfully, someone can retrieve the parked call on another phone.

### Note

Call Park feature is not available on all servers. Contact your system administrator for more information.

#### To configure a call park key via phone user interface:

- Press .
- Select **Features->DSS Keys**.
- Select the desired DSS key.
- Press  or  to select **Key Event** from the **Type** field.
- Press  or  to select **Call Park** from the **Key Type** field.
- Press  or  to select the specific line from the **Account ID** field.
- Enter the call park feature code (contact your system administrator for it) in the **Value** field.



- Press  to accept the change.

You can also configure a call park key via web user interface at the path **Phone->DSS Keys**.

#### To use the Call Park feature:

- User on phone A places a call to phone B.
- User on phone A wants to take the call in a conference room for privacy, then presses the call park key on phone A.
- (Optional.)The SIP Server sends the first available call park extension (e.g. 150),

which will appear on the LCD screen of phone A.

- The user on phone A walks to an available conference room where the phone is designated as phone C. The user dials the call park retrieve code (or the call park extension (e.g. 150)) to retrieve the parked call.  
The system establishes call between phone C and B.

#### Note

The call park feature code and call park extension are predefined on the system server. Contact the system administrator for more information.

If the parked call is not retrieved within a period time assigned by the system, the phone performing call park feature will receive call back.

## Call Pickup

You can press a pickup key to answer someone else's incoming call on the phone. The SIP-T20P IP phone supports the directed call pickup and group call pickup features. Directed call pickup is used for picking up a call that is ringing at a specific phone number. Group call pickup is used for picking up a call that is ringing at any phone number in the group. The pickup group should be predefined, contact your system administrator for more information.

#### Note

If there are many incoming calls at the same time, press the pickup key on the phone will pick up the call that rings first.

### Directed Call Pickup

To configure a pickup key via phone user interface:

- Press .
- Select **Features->DSS Keys**.
- Select the desired DSS key.
- Press  or  to select **Key Event** from the **Type** field.
- Press  or  to select **Pick Up** from the **Key Type** field.
- Press  or  to select the desired line from the **Account ID** field.
- Enter the pickup code followed by the specific phone number you want to pick up in the **Value** field.

1. Type:

◀ Key Event ▶

- Press  to accept the change.

You can also configure a direct pickup key via web user interface at the path **Phone->DSS Keys**.

**To pick up a call directly:**

1. Press the pickup key on your phone when the specific phone number receives an incoming call.  
The incoming call is answered on your phone.

## Group Call Pickup

**To configure a group pickup key via phone user interface:**

1. Press .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **Key Event** from the **Type** field.
5. Press  or  to select **Group Pick Up** from the **Key Type** field.
6. Press  or  to select the desired line from the **Account ID** field.
7. Enter the group pickup feature code in the **Value** field.



8. Press  to accept the change.

You can also configure a group pickup key via web user interface at the path **Phone->DSS Keys**.

**To pick up a call in the group:**

1. Press the group pickup key on your phone when a phone number in the group receives an incoming call.  
The incoming call is answered on your phone.

## Anonymous Call

You can use anonymous call feature to block the identity and phone number from showing up to the called party when you call someone. For example, you want to call to consult some of the services, but you don't want to be harassed.

### Note

The anonymous call feature is not available on all servers. Contact your system administrator for the anonymous call on code and off code.

### To configure anonymous call via phone user interface:

1. Press .
2. Select **Features->Anonymous Call**.
3. Press  or  to select the desired line from the **Line ID** field.
4. Press  or  to select **Enable** from the **Anonymous Call** field.
5. (Optional.) Enter the anonymous call on code in the **Call On Code** field.
6. (Optional.) Enter the anonymous call off code in the **Call Off Code** field.

1. Line ID:

◀ Line 1 ▶

7. Press  to accept the change.

You can also configure anonymous call via web user interface at the path **Account->Basic**.

### To place an anonymous call:

1. Using the specific line on the phone to place a call to phone B.  
The LCD screen of phone B prompts an incoming call from anonymity.

Anonymous

anonymous

## Anonymous Call Rejection

You can use anonymous call rejection feature to reject incoming calls from anonymous callers. Anonymous call rejection automatically rejects incoming calls from callers who deliberately block their identities and numbers from showing up.

**To configure anonymous call rejection via phone user interface:**

1. Press  .
2. Select **Features->Anonymous Call**.
3. Press  or  to select the desired line from the **Line ID** field.
4. Press  or  to scroll to the **Rejection** field.
5. Press  or  to select **Enable** from the **Rejection** field.
6. (Optional.) Enter the anonymous call rejection on code in the **Reject On Code** field.
7. (Optional.) Enter the anonymous call rejection off code in the **Reject Off Code** field.
8. Press  to accept the change.

You can also configure anonymous call rejection via web user interface at the path **Account->Basic**.

# Advanced Phone Features

This chapter provides operating instructions for the advanced features of the SIP-T20P IP phone. The topics include:

- [Busy Lamp Field \(BLF\)](#)
- [BLF List](#)
- [Shared Line](#)
- [Call Recording](#)
- [Intercom](#)
- [Multicast Paging](#)
- [Music on Hold](#)
- [Automatic Call Distribution \(ACD\)](#)
- [Voice Mail](#)
- [Message Waiting Indicator \(MWI\)](#)

If you require additional information or assistance with your new phone, contact your system administrator.

## Busy Lamp Field (BLF)

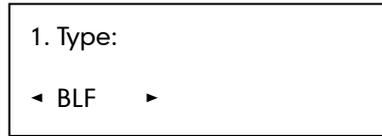
You can use the BLF feature to monitor a specific user for status changes on the phone. For example, you can configure a BLF key on the phone for monitoring the status of a friend's phone (busy or idle). When the friend picks up his phone to make a call, the BLF key LED illuminates flashing green on your phone to indicate that the friend's phone is in use and busy. For more BLF key LED indications, refer to [LED Instructions](#) on page 5.

You can press a BLF key to dial out the monitored user when he is idle. You can also pick up a call directly by pressing the BLF key when the monitored user is ringing. For more information, contact your system administrator.

**To configure a BLF key via phone user interface:**

1. Press  .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **BLF** from the **Type** field.
5. Press  or  to select the desired line from the **Account ID** field.
6. Enter the phone number you want to monitor in the **Value** field.

- (Optional.) Enter the pickup code in the **Extension** field.



- Press  to accept the change.

You can also configure the BLF key via web user interface at the path **Phone->DSS Keys**.

## BLF List

You can use the BLF List feature to monitor a list of users defined by your system administrator. For example, your system administrator enables BLF List, and creates a BLF List URI (e.g., BLFList@example.com) including a list of user1, user2 and user3 on the server. You can configure BLF List keys on the phone to monitor the status changes of user1, user2 and user3. The key LEDs illuminate either flashing or solid depending on the status of those users. For more BLF List key LED indications, refer to [LED Instructions](#) on page 5.

You can use the BLF List keys in the following ways:

- When the monitored user is idle, press the BLF List key to dial out the phone number.
- When the monitored user is ringing, press the BLF List key to pick up the call directly.
- When there is a conversation on the monitored user, press the BLF List key to barge in and set up a conference call.

### To configure the BLF List settings via web user interface:

- Click on **Account**.
- Select the desired account from the **Account** field.
- Click on **Advanced**.
- Enter the BLF List URI in the **BLF List URI** field.
- (Optional.) Enter the BLF pickup code in the **BLF List Code** field.
- (Optional.) Enter the BLF barge in code in the **BLFListBargeInCode** field.
- Click **Confirm** to accept the change.

### Note

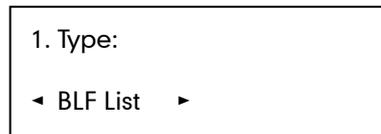
For more information about the BLF List pickup and BLF List barge in feature, contact your system administrator.

You can configure the BLF List settings via web user interface only.

### To configure BLF List keys via phone user interface:

- Press .
- Select **Features->DSS Keys**.

3. Select the desired DSS key.
4. Press ◀ or ▶ to select **BLF List** from the **Type** field.
5. Press ◀ or ▶ to select the desired line from the **Account ID** field.



6. Press **OK** to accept the change.
7. Repeat steps 2 to 5 to configure more BLF List keys.

You can also configure BLF List keys via web user interface at the path **Phone->DSS Keys**.

After the above configurations, according to the response message from the BLF List server, the IP phone will automatically assign the phone number of the BLF List users to the BLF List keys in order.

## Shared Line

Shared line is configured by assigning the same extension number to multiple lines. You can use the shared line feature to share an extension number which is used on two or more IP phones at the same time. An incoming call to that number will cause all phones to ring simultaneously. The incoming call can be answered on one of the phones but not all of them. This feature is very useful in the boss and secretary scenario. For example, the secretary can assign the boss' extension number by configuring a shared line key on her phone. When there is an incoming call to the extension number of the boss, both the phones of the boss and the secretary will ring simultaneously. Either the boss or the secretary can answer the call. Calls on shared line can be placed on hold or barged in.

### Note

The shared Line feature is not available on all servers. For more information, contact your system administrator.

#### To place the call on public hold:

1. Press  or the shared line key when there is an active call on the shared line.

#### To retrieve a call placed on public hold:

1. Press the shared line key on any phone when there is a public held call on the shared line.

The shared line key LED illuminates flashing when the shared line call is placed on public hold. For more shared line key LED indications, refer to [LED Instructions](#) on page 5.

To place the call on private hold, you should configure a private hold key in advance:

1. Press .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **Key Event** from the Type field.
5. Press  or  to select **Private Hold** from the **Key Type** field.



6. Press  to accept the change.

You can also configure a private hold key via web user interface at the path **Phone->DSS Keys**.

**To place the call on private hold:**

1. Press the private hold key when there is an active call on the shared line.

**Note**

The private held call can be only retrieved by the hold party.  
If the call is placed on private hold, and you attempt to pick up the call by pressing the shared line key, the retrieve will fail and the LCD screen will prompt "Forbidden".

**To barge in a shared line call:**

1. Press the shared line key on any other phone when there is an active call on the shared line.

For more shared line key LED instruction, refer to [LED Instructions](#) on page 5.

## Call Recording

You can record calls by pressing a record key on the SIP-T20P IP phone. There are 2 different ways of configuring call recording and they even work differently:

- **Record:** the phone sends SIP INFO message containing a specific header to trigger a recording.
- **URL Record:** the phone sends HTTP URL request to trigger a recording. Contact your system administrator for the predefined URL.

**Note**

The record feature is not available on all servers. Contact your system administrator for more information.

**To configure a Record key via phone user interface:**

1. Press .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **Key Event** from the **Type** field.
5. Press  or  to select **Record** from the **Key Type** field.



6. Press  to accept the change.

**To configure a URL Record key via phone user interface:**

1. Press .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **URL Record** from the **Type** field.
5. Enter the URL (e.g. <http://10.1.2.224/phonerecording.cgi>) in the **Value** field.



6. Press  to accept the change.

You can also configure the Record key or URL Record key via web user interface at the path **Phone->DSS Keys**.

**The Record/URL Record keys control recording and are available:**

- During an active call
- When calls are on hold or mute
- During a blind or attended transfer
- During a conference call
- When the phone prompts you to answer an incoming call

**The Record/ URL Record key is not available:**

- When there are no connected calls on your phone
- When you place a new call

**To record a call:**

1. Press the Record key or URL Record key during a call.  
If the recording starts successfully, the Record or URL Record key LED flashes green.
2. Press the Record key or URL Record key again to stop recording.  
The Record or URL Record key LED turns off.

You can listen to the recordings which stored on your server system. For example, you can dial an access code.

**Note** The way listening to the recordings may be different. Contact your system administrator for more information.

## Intercom

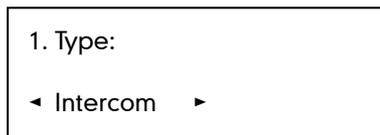
Intercom is a useful feature in an office environment to quickly connect with the operator or the secretary. You can press the configured intercom key to automatically connect with a remote extension for outgoing intercom calls, and the remote extension will automatically answer the incoming intercom calls.

**Note** The intercom feature is not available on all servers. Contact your system administrator for more information.

## Outgoing Intercom Calls

**To configure an intercom key via phone user interface:**

1. Press .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **Intercom** from the **Type** field.
5. Select the desired line from the **Account ID** field.
6. Enter the remote extension number in the **Value** field.



7. Press  to accept the change.

You can also configure a DSS key as intercom via web user interface at the path **Phone ->DSS Keys**.

**To place an intercom call:**

1. Press the intercom key when the phone is idle.  
The phone is automatically connected to the extension specified in the **Value** field.
2. Press the intercom key again or  to end the intercom call.

## Incoming Intercom Calls

By default, the SIP-T20P IP phone supports to answer an incoming intercom call automatically. The phone automatically plays a warning tone when it receives an incoming intercom call. In addition, you can enable the phone to mute the microphone when it automatically answers an incoming intercom call. You can also enable the phone to automatically answer an incoming intercom call while there is already an active call on the phone, the active call is placed on hold.

Intercom features you need to know:

Intercom features	Description
Intercom Allow	Allows you to enable or disable the IP phone to automatically answer an incoming intercom call.
Intercom Mute	Allows you to enable or disable the microphone on the IP phone for Intercom calls.
Intercom Tone	Allows you to enable or disable a warning tone when the phone receives an incoming intercom call.
Intercom Barge	Allows you to enable or disable the IP phone to automatically answer an incoming intercom call while there is already an active call on the phone.

**To configure intercom features via phone user interface:**

1. Press .
2. Select **Features->Intercom**.
3. Make the desired changes.



4. Press  to accept the change.

You can also configure these specific parameters via web user interface at the path **Phone -> Features**.

**Intercom Allow**

You can enable or disable the phone to automatically answer an incoming intercom call. If Intercom Allow is enabled, the phone automatically answers an incoming intercom

call. If Intercom Allow is disabled, the phone rejects incoming intercom calls and sends a busy signal to the caller. Intercom Allow is enabled by default.

**Note**

Your administrator can set a time period delay before the phone automatically answers. Contact your system administrator for more information.

**Intercom Mute**

You can mute or un-mute the microphone on the phone for intercom calls automatically. If Intercom Mute is enabled, the microphone is muted for intercom calls. If Intercom Mute is disabled, the microphone is un-muted for incoming calls. Intercom Mute is disabled by default.

**Intercom Tone**

You can enable or disable the phone to play a warning tone when receiving an intercom call. If Intercom Tone is enabled, the phone plays a warning tone to alert you before answering the intercom call. If Intercom Tone is disabled, the phone automatically answers the intercom call without warning. Intercom Tone is enabled by default.

**Intercom Barge**

You can enable or disable the phone to automatically answer an incoming intercom call while there is already an active call on the phone. If Intercom Barge is enabled, the phone automatically answers the intercom call and places the active call on hold. If Intercom Barge is disabled, the phone handles an incoming intercom call like a waiting call. Intercom Barge is disabled by default.

## Multicast Paging

You can use multicast paging to quickly and easily forward time sensitive announcements out to people within the multicast group. You can configure a multicast paging key on the phone, which allows you to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address(es) without involving SIP signaling. You can configure the phone to allow it to receive a RTP stream from pre-configured multicast listening address(es) without involving SIP signaling. You can specify up to 10 multicast listening addresses.

## Sending RTP Stream

To configure a multicast paging key via phone user interface:

1. Press  .
2. Select **Features->DSS Keys**.

3. Select the desired DSS key.
4. Press ◀ or ▶ to select **Key Event** from the **Type** field.
5. Press ◀ or ▶ to select **Multicast Paging** from the **Key Type** field.
6. Enter the multicast IP address and port number (e.g. 224.5.6.20:10008) in the **Value** field.



7. Press OK to accept the change.

You can also configure a multicast paging key via web user interface at the path **Phone->DSS Keys**.

You can also configure the phone to use a default codec for sending multicast RTP stream via web interface.

#### To configure a default codec for multicast paging:

1. Click on **Phone->Features**.
2. Select the desired codec from the pull-down list of **MulticastCodec**.
3. Click **Confirm** to accept the change.

#### Note

If G722 codec is used for multicast paging, the phone LCD screen prompts "HD" to indicate that it is providing high definition voice.

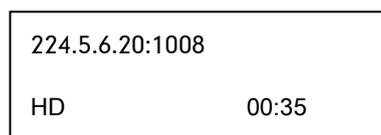
#### To send RTP stream:

1. Press the multicast paging key when the phone is idle.

The phone sends RTP to a preconfigured multicast address (IP: Port). Any phone in the local network then listens to the RTP on the preconfigured multicast address (IP: Port). For both sending and receiving of the multicast RTP there is no sip signaling involved.

The multicast paging key LED illuminates solid green.

The following figure shows a multicast RTP session on the phone:



2. Press HOLD to place the current multicast RTP session on hold.
3. Press MENU to cancel the multicast RTP session.

#### Note

Multicast RTP is one way only- from sender to the multicast address(es) (receiver). For outgoing RTP multicasts, all other existing calls on the phone will be placed on hold.

## Receiving RTP Stream

You can configure the phone to receive a Real Time Transport Protocol (RTP) stream from the pre-configured multicast address(es) without involving SIP signaling. You can specify up to 10 multicast addresses that the phone listens to on the network.

You can also change the behavior of how the phone handles incoming multicast paging calls by configuring specific parameters via web user interface. The specific parameters are: Paging Barge and Paging Priority Active.

### Paging Barge

You can use the paging barge feature to define the priority of the voice call in progress. If the priority of an incoming multicast paging call is lower than that of the active call, then it will be ignored automatically. If Disabled is selected from the pull-down list of Paging Barge, the voice call in progress shall take precedence over all incoming multicast paging calls. The valid values in the Paging Barge field are:

- **1 to 10:** Define the priority of an active call, 1 is the highest priority, 10 is the lowest priority.
- **Disabled:** The voice call in progress shall take precedence over all incoming paging calls.

### Paging Priority Active

You can enable or disable this feature to decide how the phone handles the incoming multicast paging calls, when there is already a multicast paging call on the phone. If enabled, the phone will ignore the incoming multicast paging call with a lower priority, otherwise, the phone will play the incoming multicast RTP and place the previous multicast paging call on hold. If disabled, the phone will automatically ignore all incoming multicast paging calls.

### To configure multicast listening addresses via web user interface:

1. Click on **Contacts->MulticastIP**.
2. Select the desired value from the pull-down list of **Paging Barge**.
3. Select the desired value from the pull-down list of **Paging Priority Active**.
4. Enter the multicast IP address(es) and port number(e.g. 224.5.6.20:10008) which the phone listens for incoming RTP multicast in the **Listening Address** field.
5. Enter the label in the **Label** field. Label will appear on the LCD screen when receiving the RTP multicast.
6. Click **Confirm** to accept the change.

### Note

The multicast IP addresses range from 224.0.0.0 to 239.255.255.255.  
The priorities of listening addresses are predefined: 1 with the highest priority, 10 with the lowest priority.

Both the multicast paging sender and the receiver will play a warning tone when pressing the multicast paging key.

## Music on Hold

Music on hold (MOH) is the business practice of playing recorded music to fill the silence that would be heard by the callers who have been placed on hold. To use this feature, you should specify a SIP URI pointing to a Music on Hold Server account, when placing a call on hold, the phone will invite this SIP URI to the Music on Hold Server account. The Music on Hold account automatically answers to the SIP INVITE messages and immediately plays audio from some source located anywhere (LAN, Internet) to the held party. Contact your system administrator for the SIP URI.

**To configure music on hold server via web user interface:**

1. Click on **Account**.
2. Select the desired account from the pull-down list of **Account**.
3. Click on **Advanced**.
4. Enter the SIP URI in the **Music on hold server** field.
5. Click **Confirm** to accept the change.

When you placed a call on hold, the held party will hear the music.

### Note

All involved parties cannot use encrypted RTP.

## Automatic Call Distribution (ACD)

ACD feature is often used in offices for customer service, such as call center. The ACD system handles the large volumes of incoming calls from callers who have no need to talk to a specific person but who require assistance from any of multiple persons at the earliest opportunity. The ACD feature on the SIP-T20P IP phone allows the ACD system to distribute calls from large volumes of incoming calls to the registered IP phone users. To use this feature, you should configure an ACD key in advance.

**To configure an ACD key via phone user interface:**

1. Press .
2. Select **Features->DSS Keys**.
3. Select the desired DSS key.
4. Press  or  to select **ACD** from the **Type** field.
5. Press  or  to select the desired line from the **Account ID** field.

1. Type:

◀ ACD ▶

6. Press  to accept the change.

You can also configure an ACD key via web user interface at the path **Phone->DSS Keys**.

**To use the ACD feature:**

1. Press the ACD key when the phone is idle.

The phone LCD screen prompts you the following information:

**User ID:** the phone number used to log in the queue.

**Password:** the password used to log in the queue.



2. Press  to log in.

**Note**

Contact your system administrator for the User ID and Password to access the applicable queue.

After configuring an ACD key, you can press the ACD key to log in the ACD system. After logging in, you are ready to receive calls from the ACD system. You can press the ACD key to show your current phone status. You can press the OK key to set your phone status to **Available /Unavailable**. The system server monitors your phone status. When you set the phone status to available, the ACD key LED illuminates solid green, and then the server begins distributing calls to your phone. When you set the phone to unavailable, the ACD key LED illuminates flashing green, and then the server temporarily stops distributing calls to your phone. To log out the ACD system, press .

**Note**

It is recommended you configure no more than one ACD key on the phone. At any time, at most one ACD key can be in progress on your phone.

## Voice Mail

You can leave voice mails for someone else on the SIP-T20P IP phone. You can also listen to the voice mails stored in a centralized location. When receiving a new voice mail, the phone will play a warning tone and the MESSAGE key LED will illuminate. The phone LCD screen will prompt receiving a new voice mail and a flashing icon.



**Note**

Voice Mail feature is not available on all servers, contact your system administrator for more information.

**To leave a voice mail:**

You can leave a voice mail for someone else when he/she is busy or inconvenient to answer the call. Follow the voice prompt from the system server to leave the voice mail, and then hang up after completing the voice mail.

**To configure voice mail access codes via phone user interface:**

1. Press .
2. Select **Messages->Set Voice Mail**.

1. Account 1 No. :	
*88	123

3. Press  or  to select the account you want to set.
4. Press  to select the proper input mode and then enter the voice mail access code (e.g. \*88).
5. Press  to accept the change.

**Note**

Voice mail access code must be predefined on the system server. Contact your system administrator for the more information.

**To listen to the voice mails:**

1. When the phone user interface prompts receiving new voice mails, press  or  to dial out the voice mail access code.
2. Follow the voice prompt to listen to the voice mails.

**Note**

Before listening to the voice mails, make sure the voice mail access code has been configured.

When all new voice mails are retrieved, the MESSAGE key LED will turn off.

**To view the voice mail via phone user interface:**

1. Press .
2. Select **Messages->View Voice Mail**.

The phone LCD screen displays the amount of voice mails that includes new or old voice mails.

1. 1234
2 new 1 old Mai

3. Select an account and then press  to listen to the voice mails.

## Message Waiting Indicator (MWI)

The SIP-T20P IP phone supports MWI feature when receiving a new voice message. If someone leaves you a voicemail, you will receive a message waiting indicator. MWI will be indicated in three ways: a warning tone, the message key LED illuminates solid green and an indicator message (including a voice mail icon) appears on the LCD screen. This is cleared only when you retrieve all voice mails or delete them.

For some particular servers, the MWI service is unsolicited. So the SIP-T20P IP phone just need to handle the MWI messages sent from the server. But for some servers, the MWI service is solicited. In this case, the SIP-T20P IP phone must enable the MWI Subscription for MWI messages.

### Note

MWI service is not available on all servers. Contact your system administrator for more information.

The MWI Subscription parameters you need to know:

Option	Description
<b>Subscribe for MWI</b>	Enable or disable a subscription for MWI service.
<b>MWI Subscription Period</b>	Period of MWI subscription. The IP phone re-sends a MWI subscription before expiring.

**To enable MWI subscription via web user interface:**

1. Click on **Account->Advanced**.
2. Select **Enabled** from the pull-down list of **Subscribe for MWI**.
3. Enter the period time (in seconds) in the **MWI Subscription Period** field.
4. Click **Confirm** to accept the change.

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# Troubleshooting

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This chapter provides general troubleshooting information to help you solve the problems you might encounter when using your SIP-T20P IP phone.

If you require additional information or assistance with your new phone, contact your system administrator.

## Why is the phone LCD screen blank?

- Ensure your phone is properly plugged into a functional AC outlet.
- Ensure that the phone isn't plugged into a plug controlled by a switch that is off.
- If the phone is plugged into a power strip, try plugging it directly into a wall outlet instead.
- If your phone is powered from PoE, ensure you use a PoE compliant switch or hub. Contact your system administrator for more information.
- Check that the power LED is on to ensure the phone is powered on.

## Why does the phone display "Network Unavailable"?

- Ensure that the Ethernet cable is plugged into the Internet port on the phone and the Ethernet cable is not loose.
- Ensure that the switch or hub in your network is operational.
- Contact your system administrator for more information.

## Why does the phone display "No Service"?

The phone LCD screen prompts "No Service" message when the SIP accounts do not register successfully. Contact your system administrator for more information on account settings.

## Why can't I get a dial tone?

Check for any loose connections and that the phone has been installed properly. For the installation instructions, refer to [Phone Installation](#) on page 11.

Check whether the dial tone is present on one of audio modes.

- Switch between the Handset, Headset (if present) or Hands-Free Speakerphone to check if the dial tone is present for one of audio modes.
- If the dial tone exists on another audio mode, connect another handset or headset to isolate the problem.

### Why doesn't the phone ring?

Check the ringer volume on your phone. To adjust the ringer volume setting, press the volume key when the phone is on-hook and idle. For more information, refer to [Volume](#) on page 21.

### Why can't I receive calls?

- Check the SIP registration with your system administrator.
- Check DND (Do Not Disturb) mode is turned off on your phone. Refer to [Do Not Disturb \(DND\)](#) on page 44.
- Check call forward feature is disabled on the phone. Refer to [Call Forward](#) on page 45.
- Check whether the caller number is stored in the blacklist directory. Refer to [Blacklist](#) on page 26.

### Why is my handset not working?

Check to ensure that the handset cord is fully connected to both the handset jack on the phone and handset. Refer to [Phone Installation](#) on page 11.

### Why is my headset not working?

- Check to ensure that the headset cord is fully connected to the headset jack on the phone. Refer to [Phone Installation](#) on page 11.
- Check to ensure that the headset mode is activated. Refer to [Headset Activation/Deactivation](#) on page 28.
- Check to ensure that the headset volume is adjusted to an appropriate level. Refer to [Volume](#) on page 21.

### How to change the user password?

You can change the user password via web user interface:

1. Click on **Security->Password**.
2. Enter the current user password in the **Current Password** field.
3. Enter the new user password in the **New Password** and **Confirm Password** fields.
4. Click **Confirm** to accept the change.

You can also contact your system administrator for help.

### How to reboot the phone?

To reboot the IP phone via web user interface:

1. Click on **Upgrade->Basic**.
2. Click **Reboot** to reboot the IP phone.

**Note** Any reboot of your phone may take a few minutes.

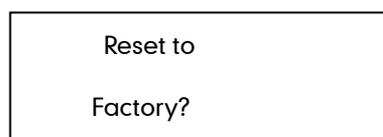
### How to reset your phone?

Reset your phone when other Troubleshooting suggestions do not correct the problem. You need to note that all customized settings will be overwritten after resetting. So we recommend asking your system administrator for advice before resetting your phone.

**To reset your phone via phone user interface:**

1. Press .
2. Select **Settings->Advanced** (password: admin).
3. Press  or  to scroll to **Reset Factory**, and then press .

The LCD screen prompts the following message:



4. Press  to confirm.

**Note** Reset of your phone may take a few minutes.

### How to export PCAP Trace?

We may need you to provide a PCAP Trace to help analyze your problem.

**To export a PCAP Trace via web user interface:**

1. Click on **Upgrade->Advanced**.
2. Click **Start** to begin recording signal traffic.
3. Recreate the error to be documented in the trace.
4. Click **Stop** to end recording.
5. Click **Export** to open file download window, and then save the file to your local system.

### How to export System Log?

We may need you to provide a System Log to help analyze your problem.

#### To export a System Log via web user interface:

1. Click on **Upgrade->Advanced**.
2. Select **Local** from the pull-down list of **Export System Log**.
3. Click **Export** to open file download window, and then save the file to your local system.

You can also export the system log to a Syslog Server, Contact your system administrator for more information.

### How to export/ import Phone Configurations?

We may need you to provide your phone configurations to help analyze your problem. In some instance, you may need to import configurations to your phone.

#### To export your phone configurations via web user interface:

1. Click on **Upgrade->Advanced**.
2. Click **Export** to open file download window, and then save the file to your local system.

#### To import phone configurations via web user interface:

1. Click on **Upgrade->Advanced**.
2. Click **Browser** to select a configuration file from your local system.
3. Click **Import** to import the configuration file.

#### Note

The file format of configuration file must be “.bin”.

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# Regulatory Notices

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## Service Agreements

Contact your Yealink Authorized Reseller for information about service agreements applicable to your product.

## Limitations of Liability

TO THE FULL EXTENT ALLOWED BY LAW, YEALINK EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF ITS PRODUCTS, EVEN IF YEALINK OR ITS AUTHORIZED RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT YEALINK'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

## Safety Instructions

**Save these instructions. Read these safety instructions before use!**

The following basic safety precautions should always be followed to reduce risk of fire, electrical shock, and other personal injury.

### General Requirements

- Before you install and use the device, read the safety instructions carefully and observe the situation during operation.
- During the process of storage, transportation, and operation, please always keep the device dry and clean.
- During the process of storage, transportation, and operation, please avoid collision and crash of the device.
- Please attempt not to dismantle the device by yourself. In case of any discrepancy, please contact the appointed maintenance center for repair.
- Without prior written consent, no organization or individual is permitted to make any change to the structure or the safety design of the device. Yealink is under no circumstance liable to consequences or legal issues caused by such changes.
- Please refer to the relevant laws and statutes while using the device. Legal rights of others should be respected as well.

### Environmental Requirements

- Place the device at a well-ventilated place. Do not expose the device under direct sunlight.
- Keep the device dry and free of dusts.
- Place the device on a stable and level platform.
- Please place no heavy objects on the device in case of damage and deformation caused by the heavy load.
- Keep at least 10 cm between the device and the closest object for heat dissipation.
- Do not place the device on or near any inflammable or fire-vulnerable object, such as rubber-made materials.
- Keep the device away from any heat source or bare fire, such as a candle or an electric heater.
- Keep the device away from any household appliance with strong magnetic field or electromagnetic field, such as a microwave oven or a refrigerator.

### Operating Requirements

- Do not let a child operate the device without guidance.
- Do not let a child play with the device or any accessory in case of accidental swallowing.
- Please use the accessories provided or authorized by the manufacturer only.
- The power supply of the device shall meet the requirements of the input voltage of the device. Please use the provided surge protection power socket only.
- Before plugging or unplugging any cable, make sure that your hands are completely dry.
- Do not spill liquid of any kind on the product or use the equipment near water, for example, near a bathtub, washbowl, kitchen sink, wet basement or near a swimming pool.
- Do not tread on, pull, or over-bend any cable in case of malfunction of the device.
- During a thunderstorm, stop using the device and disconnect it from the power supply. Unplug the power plug and the Asymmetric Digital Subscriber Line (ADSL) twisted pair (the radio frequency cable) to avoid lightning strike.
- If the device is left unused for a rather long time, disconnect it from the power supply and unplug the power plug.
- When there is smoke emitted from the device, or some abnormal noise or smell, disconnect the device from the power supply, and unplug the power plug immediately. Contact the specified maintenance center for repair.
- Do not insert any object into equipment slots that is not part of the product or auxiliary product.
- Before connecting a cable, connect the grounding cable of the device first. Do not disconnect the grounding cable until you disconnect all other cables.

 **Cleaning Requirements**

- Before cleaning the device, stop using it and disconnect it from the power supply.
- Use a piece of soft, dry and anti-static cloth to clean the device.
- Keep the power plug clean and dry. Using a dirty or wet power plug may lead to electric shock or other perils.



## Appendix A - Time Zones

Time Zone	Time Zone Name
- 11:00	Samoa
- 10:00	United States-Hawaii-Aleutian
- 10:00	United States-Alaska-Aleutian
-09:00	United States-Alaska Time
-08:00	Canada(Vancouver, Whitehorse)
-08:00	Mexico(Tijuana, Mexicali)
-08:00	United States-Pacific Time
-07:00	Canada(Edmonton, Calgary)
-07:00	Mexico(Mazatlan, Chihuahua)
-07:00	United States-Mountain Time
-07:00	United States-MST no DST
-06:00	Canada-Manitoba(Winnipeg)
-06:00	Chile(Easter Islands)
-06:00	Mexico(Mexico City, Acapulco)
-06:00	United States-Central Time
-05:00	Bahamas(Nassau)
-05:00	Canada(Montreal, Ottawa, Quebec)
-05:00	Cuba(Havana)
-05:00	United States-Eastern Time
-04:30	Venezuela(Caracas)
-04:00	Canada(Halifax, Saint John)
-04:00	Chile(Santiago)
-04:00	Paraguay(Asuncion)
-04:00	United Kingdom-Bermuda(Bermuda)
-04:00	United Kingdom(Falkland Islands)
-04:00	Trinidad&Tobago
-03:30	Canada- New Foundland(St.Johns)
-03:00	Denmark-Greenland(Nuuk)
-03:00	Argentina(Buenos Aires)
-03:00	Brazil(no DST)
-03:00	Brazil(DST)
-02:00	Brazil(no DST)
-01:00	Portugal(Azores)
0	GMT
0	Greenland
0	Denmark-Faroe Islands(Torshaven)
0	Ireland(Dublin)
0	Portugal(Lisboa, Porto, Funchal)
0	Spain-Canary Islands(Las Palmas)
0	United Kingdom(London)
0	Morocco
+01:00	Albania(Tirana)
+01:00	Austria(Vienna)
+01:00	Belgium(Brussels)
+01:00	Caicos
+01:00	Chatam
+01:00	Croatia(Zagreb)
+01:00	Czech Republic(Prague)
+01:00	Denmark(Copenhagen)
+01:00	France(Paris)
+01:00	Germany(Berlin)

Time Zone	Time Zone Name
+01:00	Hungary(Budapest)
+01:00	Italy(Rome)
+01:00	Luxembourg(Luxembourg)
+01:00	Macedonia(Skopje)
+01:00	Netherlands(Amsterdam)
+01:00	Namibia(Windhhoek)
+02:00	Estonia(Tallinn)
+02:00	Finland(Helsinki)
+02:00	Gaza Strip(Gaza)
+02:00	Greece(Athens)
+02:00	Israel(Tel Aviv)
+02:00	Jordan(Amman)
+02:00	Latvia(Riga)
+02:00	Lebanon(Beirut)
+02:00	Moldova(Kishinev)
+02:00	Russia(Kaliningrad)
+02:00	Romania(Bucharest)
+02:00	Syria(Damascus)
+02:00	Turkey(Ankara)
+02:00	Ukraine(Kyiv, Odessa)
+02:00	Syria(Damascus)
+03:00	East Africa Time
+03:00	Iraq(Baghdad)
+03:00	Russia(Moscow)
+03:30	Iran(Teheran)
+04:00	Armenia(Yerevan)
+04:00	Azerbaijan(Baku)
+04:00	Georgia(Tbilisi)
+04:00	Kazakstan(Aqtau)
+04:00	Russia(Samara)
+05:00	Kazakstan(Aqtobe)
+05:00	Kyrgyzstan(Bishkek)
+05:00	Pakistan(Islamabad)
+05:00	Russia(Chelyabinsk)
+05:30	India(Calcutta)
+06:00	Kazakhstan(Astana, Almaty)
+06:00	Russia(Novosibirsk, Omsk)
+07:00	Russia(Krasnoyarsk)
+07:00	Thailand(Bangkok)
+08:00	China(Beijing)
+08:00	Singapore(Singapore)
+08:00	Australia(Perth)
+09:00	Korea(Seoul)
+09:00	Japan(Tokyo)
+09:30	Australia(Adelaide)
+09:30	Australia(Darwin)
+10:00	Australia(Sydney, Melbourne, Canberra)
+10:00	Australia(Brisbane)
+10:00	Australia(Hobart)
+10:00	Russia(Vladivostok)
+10:30	Australia(Lord Howe Islands)
+11:00	New Caledonia(Noumea)
+12:00	New Zeland(Wellington, Auckland)
+12:45	New Zeland(Chatham Islands)
+13:00	Tonga(Nukualofa)

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