VOGTEC IP PHONE

Mobex T Series

VOGTEC

Copyright

Guarantee

Declaration

The equipment complies with the basic requirements of CE and other relevant regulations.

CE mark

$ C \epsilon $ The device complies with the EU Red Directive 2014/53/EU.

WEEE Warning

Since the presence of hazardous substances in electrical and electronic equipment, users should be aware of the meaning of the mark in order to avoid possible impacts on the environment and human health. For WEEE products, they cannot be disposed of with other household wastes and are separately collected and disposed of.

INTRODUCTION

Thank you for choosing the Mobex T Series IP Phone. The phone is designed for use WLAN or WCDMA and LTE networks. This product can be used across EU member states. You will require a valid SIM card from your network operator. Please refer to your network operator for more information.

These instructions are intended for the safe and effective use of your phone. Please follow these guidelines. Failure to do so might cause the product to malfunction, or even a potential hazard to your health.

Always read the safety instructions carefully.

- Keep this user manual for future reference.
- Keep the phone away from humidity.
- If any of the following situations arise, have the unit checked by a service technician:
- Exposure to moisture.
- Drop page and damaged.
- Obvious signs of breakage.
- Do not place the phone in a damp room at a distance of less than 1.5 m from a water source. Keep the device away from water or any form of liquid.
- Do not use the device in environments where there are risks of explosions.

Do not use your phone while driving. Park the car before making or answering a call.

Turn off your phone when refueling. Do not use your phone near a gas station, flammable, or chemical substances. Warning! It may explode when exposed in fire.

Do not use your phone during a flight. Wireless devices can cause interference in the aircraft.

Do not use your phone near medical equipment like pacemaker without requesting permission from the physician or medical staff.

Radio signals may affect the performance of your phone.

Do not touch any exposed parts of the antenna while in a call, it will affect the call reception and waste battery power.

Do not attempt to disassemble or modify the phone by yourself. Only authorized personnel should perform this service.

When you connect accessories to your phone, please read the safety guidelines carefully. Do not use unauthorized products.

Please use only the original accessories or products that are authorized by our company.

Keep out of children's reach.

SAFETY INSTRUCTIONS

Before using the appliance please read this manual startup, especially the safety instructions.

Safety warnings

1. The working temperature is from 0 to 40.
2. In each country there may be different rules in force regarding the use of mobile phones (for example, while driving, In hospitals, Service stations or aircraft).
3. Observe the laws regarding the use of existing mobile phones at home and turn off the device when its use is prohibited or when it may cause interference or dangerous situations.
4. Use the device only in accordance with its intended use and only in places where a phone call is not dangerous.
5. Use the power adapter and battery as supplied or recommended by manufacturer. The risk of explosion may increase if an unsuitable or unauthentic adapter is used. The battery should never be opened or exposed or flames. Dispose the used batteries according to the current guidelines and regulations.
6. The correct operation of medical appliances may be altered by the use of mobile phones. Pacemaker manufacture recommend that a minimum distance of 20cm between devices when the mobile phone is on. Do not carry your phone in your pocket or near your chest.

Attention

1. Do not expose the unit to moisture or extreme heat (strong sunlight or direct radiation), or cold (persistent frost).
2. Do not drop the unit and avoid subjecting it to shock, impact or pressure.
3. The phone may cause interference to nearby televisions, radios and other electrical appliances.
4. Do not ever spray with spray cleaners as it can penetrate through the holes and damage the appliance.
5. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions
6. Adapter shall be installed near the equipment and shall be easily accessible.

Quick Start Guide (V1.3)

Applies to firmware version v1.1.16 or later

Packaging Contents

The following items are included in your package. If you find anything missing, contact your system administrator.

Handset
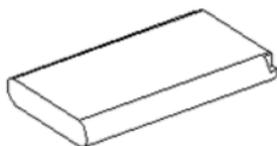
Battery

Charging base

Charge cable
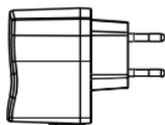
Power Adapter

Belt clip

Quick Start Guide

Note:

The models displayed on the phone differ from each other. The packaging content "IP Phone" listed above takes a Mobex T3 IP phone as an example. We recommend that you use the accessories provided or approved by original factory. The use of unapproved third-party accessories may result in reduced performance.
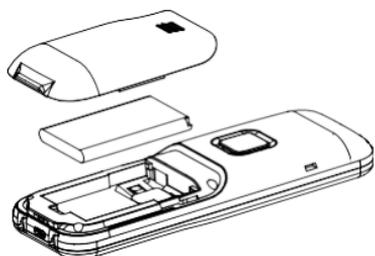
Insert battery
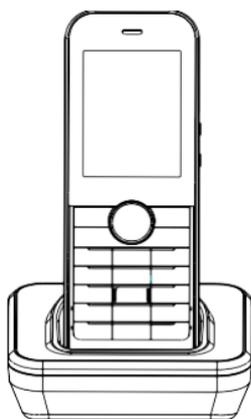
Desk Mount Method
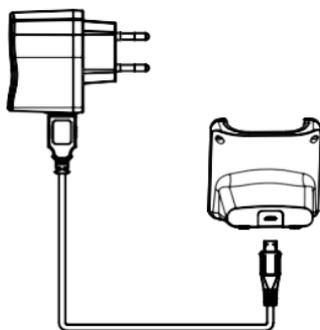
Connect the power

Note:

The IP phone should be used with original factory power adapter only. The use of the third-party power adapter may cause the damage to the phone.

Startup

After the IP phone is inserted the battery, than ⬠]key startup, it automatically begins the initialization process. After startup, the phone is ready for use. You can configure the phone via phone user interface or web user interface.

Network Settings:

Press the Menu soft key when the phone is idle, select → list APs, Select the AP you want to connect, and enter an AP password in the user interface, press[OK]key to connect.

Configuring Your Phone

Configuring via web user interface
Accessing the web user interface:
1.Press the[ ]key when the phone is idle to obtain the IP address of the phone.
2.Open the web browser of your computer, enter the IP address into the address bar (e.g. "http://192.168.0.100" or "192.168.0.100"), and then press the Enter.
3.Enter the password (Default no password) in the login page and click login.

Account Settings: Click on → SIP
Parameters of the account:

Enable Account:	You can check/Disabled to enable/disable the account.
Status:	It shows the register status of the current account.
Enable Register:	You can select Enabled/Disabled to enable/disable the account.
Register Server:	It is provided by ITSP for registration (required).
Server Port:	It is provided by ITSP for registration (required), default is 5060.
Authorization Name:	It is provided by ITSP for registration (required).
Password:	It is provided by ITSP for registration (required).
User ID:	It is provided by ITSP for registration (required).
Display Name:	It is shown as Caller ID when placing a call.
Label:	It is shown on the LCD screen to identify the account.

Register status icons on the LCD screen:

👤 Resisted   👤 Register Failed

Note:

Check with your system administrator if any error appears during the registration process or if a specific configuration is required for your registration.

Configuring via phone user interface
Account Settings: Press the Menu soft key when the phone is idle, select →
Advanced Enter password (Default no 123) Accounts to configure the account

Note:

For more information on account parameters, refer to Configuring via web user interface above.

Placing a Call
Enter the number in idle, and then press 【 ︾ 】 key.

Direct IP Call
Enter the IP address in idle(star 【 * 】 key as the point), and press 【 ︾ 】 key.
For example:The IP address is 192.168.0.8, enter 192*168*0*8 in idle, and press the
【 ︾ 】 key.

Answering a Call
Press 【 ︾ 】 key in the incoming call.

Note:You can reject an incoming call by pressing the Reject sot key 【 ︽ 】 key.

Ending a Call Press
【 ︽ 】 key.

Redial
Press 【 ︾ 】 key to enter the calls list, press 【 ⏶ 】 or 【 ⏶ 】 to select the
desired entry, and then 【 ︾ 】 .

Call Mute and Un-mute
Press 【 🎤 】 to mute the microphone during a call.
Press 【 🎤 】 again to un-mute the call.

Call Hold and Resume
To place a call on hold:
Press Option soft key to expand the submenu options and select Hold feature during
an active call.
To resume the call, do one of the following:
Press Option soft key to expand the submenu options and select Resume feature
during an active call.

Call Transfer

You can transfer a call in the following ways:

Blind Transfer

1．Press Option soft key to expand the submenu options and select Transfer feature during an active call, the call placed on hold.

2．Enter the number you want to transfer to.

3．Press Option soft key to expand the submenu options and select Transfer feature

Semi-Attend Transfer

1．Press Option soft key to expand the submenu options and select Transfer feature during an active call. The call placed on hold.

2．Enter the number you want to transfer to, and then ︵ ︶ 】 key. 3．Press Option soft key to expand the submenu options and select Transfer feature when you hear the ring-back tone.

Attended Transfer

1．Press Option soft key to expand the submenu options and select Transfer feature during an active call. The call placed on hold

2．Enter the number you want to transfer to, and then ︵ ︶ 】 key. 3．Press Option soft key to expand the submenu options and select Transfer feature when the second party answers.

Call Forward

To enable call forward:

1.Press the Menu soft key when the phone is idle, and then select →Call Forward

2.Select the desired forward type:

Always ----Incoming calls are forwarded unconditionally.

Busy --- Incoming calls are forwarded when the phone is busy.

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

3.Enter the number you want to forward to. For No Answer, Press enter the desired ring time to wait before forwarding from the Time field.

4.Press【OK】key to save the change.

Call Conference

1.Press Option soft key to expand the submenu options and select Conference feature during an active call. The call placed on hold.

2.Enter the number of the second party, and then ︵ ︶ 】 key.

3.Press Option soft key to expand the submenu options and select Conference feature when the second party answers. All parties are now joined in the conference.

4.Press【 ︵ ︶ 】key to disconnect all parties.

Speed Dial

To configure a speed dial key:

1.Press the Menu soft key when the phone is idle, and then select Directory Speed Dials.
2.Enter Numbers for the corresponding numeric keys.
3.Press 【OK】 key to save the change.

To use the speed dial key:
When the phone is idle, keep press the numeric key to dial out the preset number.

Voice Message
Message waiting indicator on the idle screen indicates that one or more voice messages are waiting at the message center. The power indicator LED slowly flashes red.

To listen to voice messages:
1.Keep 【 ☎ 】 when the phone is idle
2.Follow the voice prompts to listen to your voice messages

Customizing Your Phone

Call History
1.Press the Menu soft key when the phone is idle, select the History, press 【 ▲ 】 or 【 ▼ 】 to scroll through the list.
2.Select an entry from the list, you can do the following:
• Press 【 ☎ 】 key to call the entry.
If you press the Option soft key, you can also do the following:
• Select Call to call the entry.
• Select Message to send message the entry.
• Select Add to Contact to add the entry to the local directory.
• Select Add to Blacklist to add the entry to the blacklist.
• Select Delete to delete the entry from the list.
• Select Delete All to delete all entries from the list.

Contact Directory
To add a contact:
1.Press the Directory soft key when the phone is idle, and then select Local Directory.
2.Press Option soft key to expand the submenu options and select Add feature to add a contact.
3.Enter a unique contact name in the Name field, and enter the phone number in the proper field.
4.Press 【OK】 key to accept the change

To edit a contact:
1.Press the Directory soft key when the phone is idle, and then select Local Directory.
2.Press 【 ▲ 】 or 【 ▼ 】 to select the desired entry, press the Option soft key

and then select Edit.

3. Edit the contact information. 4.Press
【   OK 】key to accept the change.

To delete a contact:

1. Press the Directory soft key when the phone is idle, and then select Local Directory.

2. Press 【 ▲ 】or 【 ▲ 】to select the desired entry, press the Option soft key and then select Delete.

3. Press Select soft key when the LCD screen prompts: "Delete selected item?".

Note:

You can add contacts from call history easily. For more information, refer to Call History above.

Volume Adjustment

• Press ⊘   】or ⊘   】during a call to adjust the receiver volume of the handset / speakerphone / headset / BT.

• Press ⊘   】or ⊘   】when the phone is idle or ringing to adjust the ringer volume.

Ring Tones

1. Press the Menu soft key when the phone is idle, and then select Preferences → Ringtones.

2. Press Shift soft key to select the desired ring tone.

3. Press 【OK 】key to accept the change.

LED Instructions

Red indicator always bright: Charging power

Flash red indicator: Low battery/Missed call/Unread Message

Green indicator: Full Charge

Update Your Phone

Update firmware through FOTA:

1. Press the Menu soft key when the phone is idle, select → Enter password (Default no → Update to update your phone.

2. When a new firmware is available, press the Update soft key and the phone immediately downloads the new firmware.

3. After downloading, click Install softkey to install

4. During the installation, the phone will be restart several times.

Note:

Update firmware must allow the phone to communicate with the public network

10

1) Press the Menu soft key when the phone is idle, select **Advanced** → **Reset** to reset your phone.
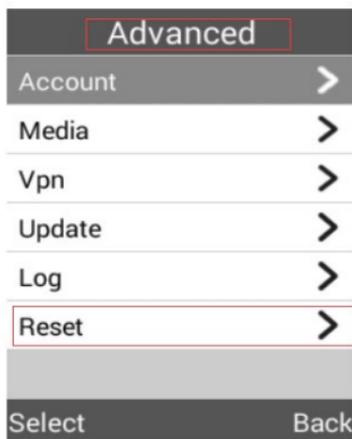
2) In the dial-up interface, press * #000000# to reset the phone.

3) Login web background select Maintenance→Config click Reset to reset factory
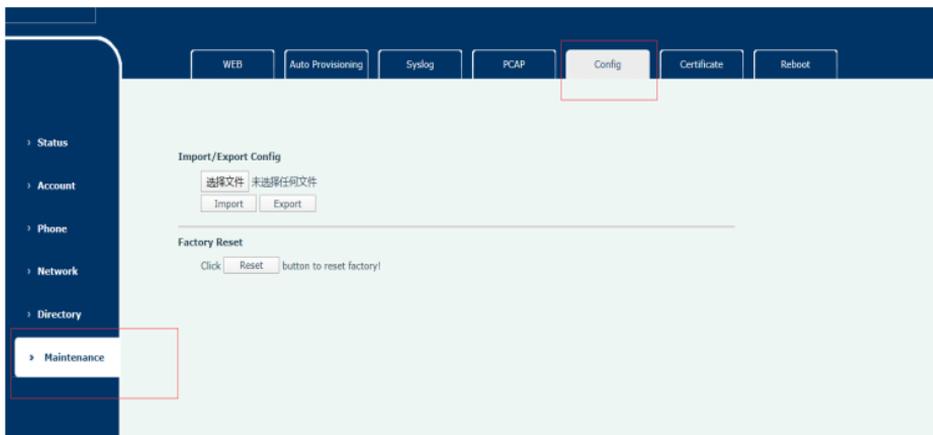
HEALTH AND SAFET

Declaration of Conformity

We hereby declare that (all essential radio test suites have been carried out and that) the above named product is in conformity to all tile essential requirements or Directive (RED) 2014/53/EU.

RF/SAR information

Your phone contains a transmitter and receiver. When powered ON it receives and transmit low-level radio-frequency (RF). Country governments all over the world adopt state security guidelines developed by independent scientific organizations such as ICNIRP and IEEE. These guidelines establish permitted levels of RF energy for the general population. The guidelines include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

Models	Bluetooth band MHz	Network band MHz
T3	V2.1+EDR, 2400	NA
M3	V2.1+EDR, 2400	WCDMA: 900/2100 GSM: 850/900/1800/1900
T2	V4.0, 2400	NA
M2	V4.0, 2400	LTE: B1/B3/B7/B20 WCDMA: 900/2100 GSM: 850/900/1800/1900

Specific Absorption Rata (SAR) is the units or measurement for absorbed radio quantity when using mobile devices. SAR lasts are conducted using standard operating position with the phone transmitting as its highest certified power level, however, tile actual SAR level of the phone while operating can be well below tile maximum value. In general, the closer you are to a base station, the lower the power output or the phone.

The SAR values may vary, depending on different models or phones. To ensure the safety and health of the users, the phone is designed and manufactured to meet the radio exposure guidelines.

The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (2.0 W/kg) specified in EN 50360 2017/EN50566 :2017, and had been tested in accordance with the measurement methods and procedures specified in EN62209-1:2016/ EN 62209-2 2010. The device complies with RF specifications when the device used at 0.5cm form your body.

Maximum SAR values for testing: 0.368W / kg (Head) , 0.058W/kg (Body).

Batteries

Never use a charger or battery that is damaged in any way. Use the battery correctly.

Do not short-cut the battery, which may damage It, cause heat or cause fire.

Do not dispose of batteries in high temperature or in a fire as they may explode.

Return the waste battery to the dealer or appointed recycle locations.

Do not dispose as household waste. Battery charging time depends on the remaining battery charge, the type of battery, and the charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time is noticeably shorter than normal, it is time to replace the battery with a new one.

Use only original or approved chargers and batteries. Unplug the charger from the electrical plug and the device when not in use.

Do not over charge as this will damage the battery and shorten its life. Leaving the battery in extremely hot or cold places will reduce the capacity of the battery.

Li-ion batteries are particularly affected by temperatures below 0 degree.

Medical devices

Ensure that you switch OFF your phone in areas near electronic medical equipment that require the phone to be switched OFF: (such as heart pacemakers, hearing aids, etc.).

Most medical devices can shield the phone's RF signal, but some cannot. If you have any doubts, or need to find out more, please consult your doctor or medical device manufacturer.

Care and maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will allow you to enjoy this product for many years.

Keep your phone sway from small children and pets. They may accidentally damage the phone or choke on small parts.

Keep the phone dry and avoid liquids that corrode the phone. Do not use the phone with wet hands, which may cause an electric shock.

Do not store the phone in hot areas, which can shorten the life of electronic devices, damage batteries, or melt accessories.

Do not store the phone in cold areas. When the phone warms up its normal operating temperature, moisture can build up inside the phone, which may damage the phones electronic circuit boards.

Do not expose your phone to hot sunlight which may cause it to over-heat.

Do not place your phone near flammable liquids, gas or explosive substances.

Do not drop or knock the phone. Rough handling can break internal circuit boards.

When cleaning the phone, use a damp or anti-static cloth. Do not use a dry or static cloth.

Do not use chemicals such as cleaning solvents to clean the surface. Switch OFF the

phone first before cleaning.

Do not paint the phone. Paint can prevent proper operation.

If the phone or battery gets wet and the label on the phone is damaged, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty far your phone has not expired.

Manufacturer : Shenzhen Vogtec Technology Co. Ltd

Address：509-512; 5/F, Kanghesheng Bldg., No. 1 Chuangsheng Rd, Nanshan District,   Shenzhen, 518055, China

WIFI SIP terminal for network requirements and recommendations

Voice quality directly is affected by all three QoS quality factors: loss, latency, and jitter.

The following list summarizes the key QoS requirements and recommendations for voice (bearer traffic):

- Voice traffic should be marked to DSCP EF per the QoS Baseline and RFC 3246.

- Loss should be no more than 1 percent.

- One-way latency (mouth to ear) should be no more than 150 ms.

- Average one-way jitter should be targeted at less than 30 ms.

- A range of 21 to 320 kbps of guaranteed priority bandwidth is required per call (depending on the sampling rate, the VoIP codec, and Layer 2 media overhead).

Limitations and Factors Affecting Throughput

First and foremost, throughput to the Internet is capped by the ISP and devices upstream of the APs. Also, 802.11 is a shared medium and is limited by other devices connected to the wireless. Therefore throughput should always be considered aggregate throughput. Interference (radio, physical, electrical) and the distance from client device to the Access Point are two major factors that have a negative impact on observed maximum throughput. Physical obstacles, other wireless networks and even everyday household

devices like computers, microwaves, and televisions increase interference significantly, especially on the 2.4GHz band.

The half-duplex nature of wireless combined with other overhead also means that the actual aggregate throughput is typically 50 percent or less of the data rate. It is theoretically possible for 802.11n-capable wireless clients to achieve speeds as high as 100Mbps or more depending on the MIMO capabilities of the AP and the wireless client. However, wireless clients operating at 802.11b/g/a can cause 802.11n users to slow to less than 54Mbps because the radio must adjust to the lowest common denominator.

The nature of Wi-Fi technology makes throughput hard to predict. Therefore, network administrators should maintain reasonable expectations for connection speeds and keep the above factors in mind.

Maximizing Throughput

Optimal throughput rates and wireless performance in general can be improved by mounting APs correctly (high up on a wall or on the ceiling). Additionally, placing APs away from kitchens and other areas with high interference will also result in better performance. In a mesh environment, throughput rates will be significantly better with fewer hops to the gateway.

Meraki recommends that the end user is located no more than 3 hops away from the gateway. Each hop will reduce the bandwidth by 50%. For example, a 6 Mbps connection to a gateway will reduce to 3 Mbps at the second hop and 1.5 Mbps at the third hop.

Vogtec T series phone built-in environment detection tools, if you had wired VoIP phone services can work normally, we need to test your AP processing capacity, please check your wireless network according to the following steps.:

1. Before testing, you need to install the iPerf test software on a PC.
2. Detect communication between terminals and PC, analysis of delay, jitter and drop.
3. Test steps:

3-1 Open the iPerf software on the PC and configure the UDP and server mode, as shown in the screenshot below:
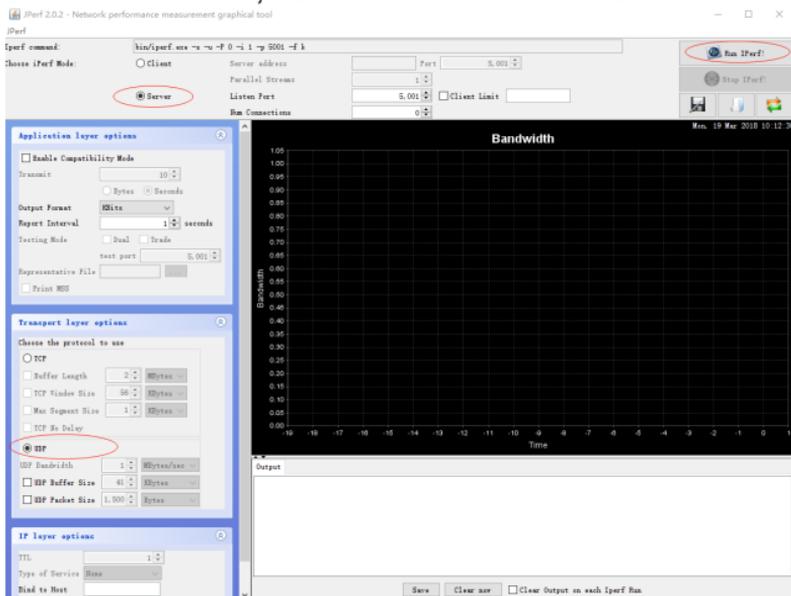
3-2 Handheld terminal via the Menu → Advanced → iPerf, open iPerf test software, just enter the address of the server, then use the arrow keys to move to Start, and click the left soft button to Start the test.
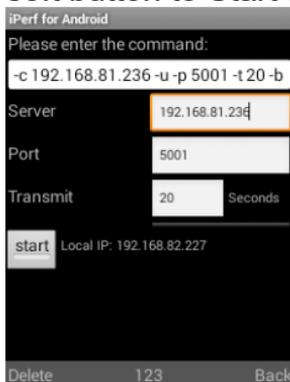
3-3 Check whether the test results can meet the VoIP business requirements: