vtech®

SIP Cordless Series
User's Guide

Models:

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB/LS-S3420/LS-S3420-USB
Color SIP Cordless Accessory Handset - C5400/C5500
Color SIP Cordless Charging Stand - C5011
Color SIP Add-On Module for USB Charging - C5021-USB

BC

Important safety instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

1. This product should be installed by a qualified technician.
2. This product should only be connected to the host equipment and never directly to the network such as Public Switch Telephone Network (PSTN) or Plain Old Telephone Services (POTS).
3. Read and understand all instructions.
4. Follow all warnings and instructions marked on the product.
5. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
6. Do not use this product near water such as near a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement or shower.
7. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
8. Slots and openings in the back or bottom of the telephone base and handset are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register. This product should not be placed in any area where proper ventilation is not provided.
9. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply on the premises, consult your dealer or local power company.
10. Do not allow anything to rest on the power cord. Do not install this product where the cord may be walked on.
11. Never push objects of any kind into this product through the slots in the telephone base or handset because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
12. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the telephone base or handset other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.
13. Do not overload wall outlets and extension cords.
14. Unplug this product from the wall outlet and refer servicing to an authorized service facility under the following conditions:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled onto the product.
    C. If the product has been exposed to rain or water.
    D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and often requires extensive work by an authorized technician to restore the product to normal operation.
    E. If the product has been dropped and the telephone base and/or handset has been damaged.
    F. If the product exhibits a distinct change in performance.
15. Avoid using a telephone (other than cordless) during an electrical storm. There is a remote risk of electric shock from lightning.
16. Do not use the telephone to report a gas leak in the vicinity of the leak. Under certain circumstances, a spark may be created when the adapter is plugged into the power outlet, or when the handset is replaced in its cradle. This is a common event associated with the closing of any electrical circuit. The user should not plug the phone into a power outlet, and should not put a charged handset into the cradle, if the phone is located in an environment containing concentrations of flammable or flame-supporting gases, unless there is adequate ventilation. A spark in such an environment could create a fire or explosion. Such environments might include: medical use of oxygen without adequate ventilation; industrial gases (cleaning solvents; gasoline vapors; etc.); a leak of natural gas; etc.
17. Only put the handset of your telephone next to your ear when it is in normal talk mode.
18. The power adapters are intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
19. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
20. In wall mounting position, make sure to mount the telephone base on the wall by aligning the eyelets with the mounting studs of the wall plate. Then slide the telephone base down on both mounting studs until it locks into place. Refer to the full instructions in **Installation** in the user's manual.
21. CAUTION: Keep small metallic objects such as pins and staples away from the handset receiver.
22. CAUTION: There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery. Dispose of used batteries according to the information in The RBRC® seal in the user's manual.
23. The equipment is to be supplied from an identified USB port complying with the requirements of Limited Power Source.
24. **Warning**: The product included (ITE) in this manual is to be connected only to PoE networks without routing to the outside plant.

SAVE THESE INSTRUCTIONS

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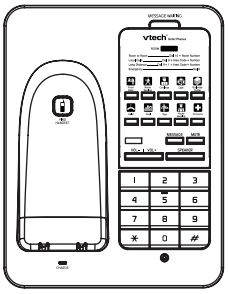
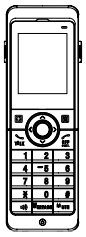
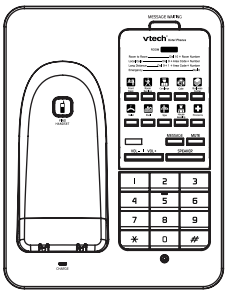
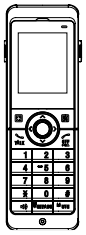
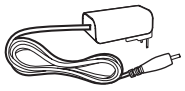
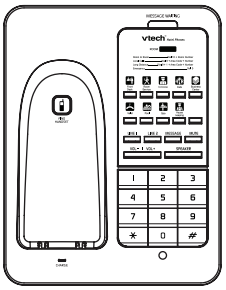
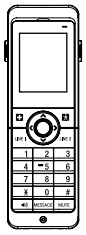
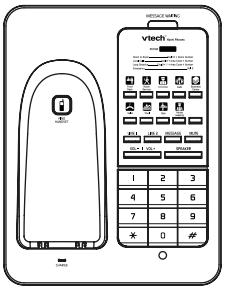
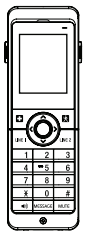
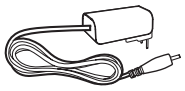
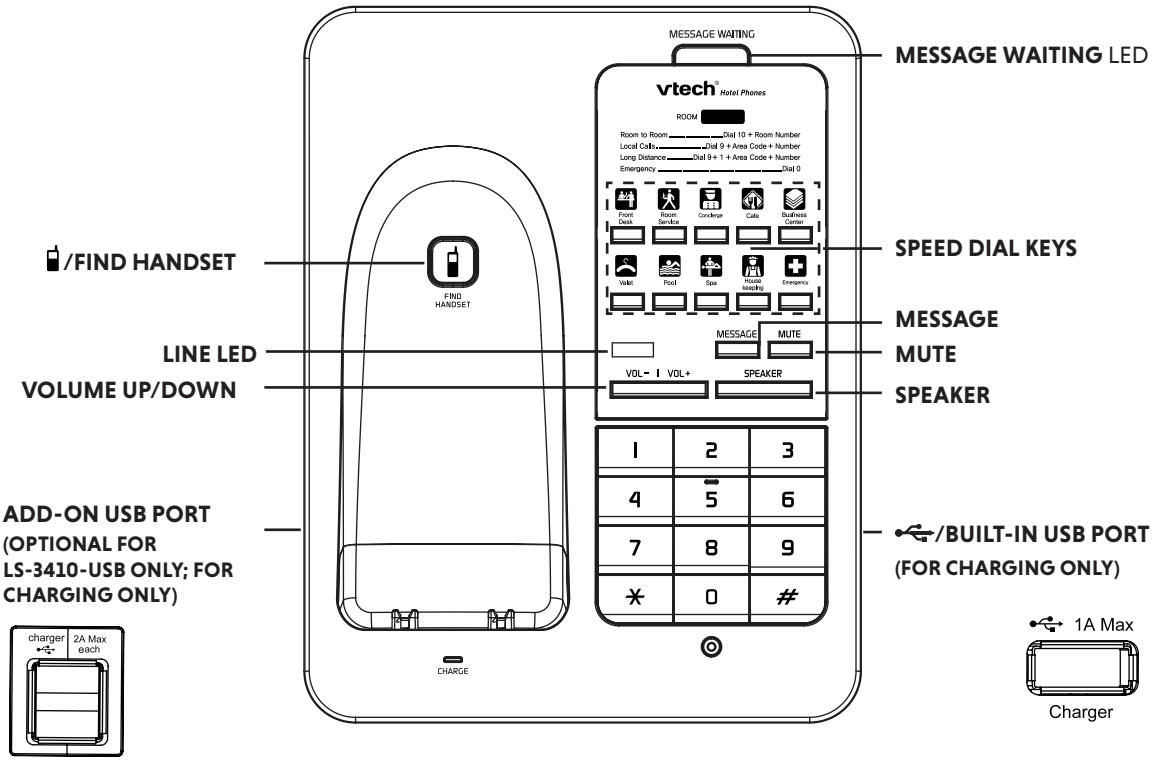
Parts checklist

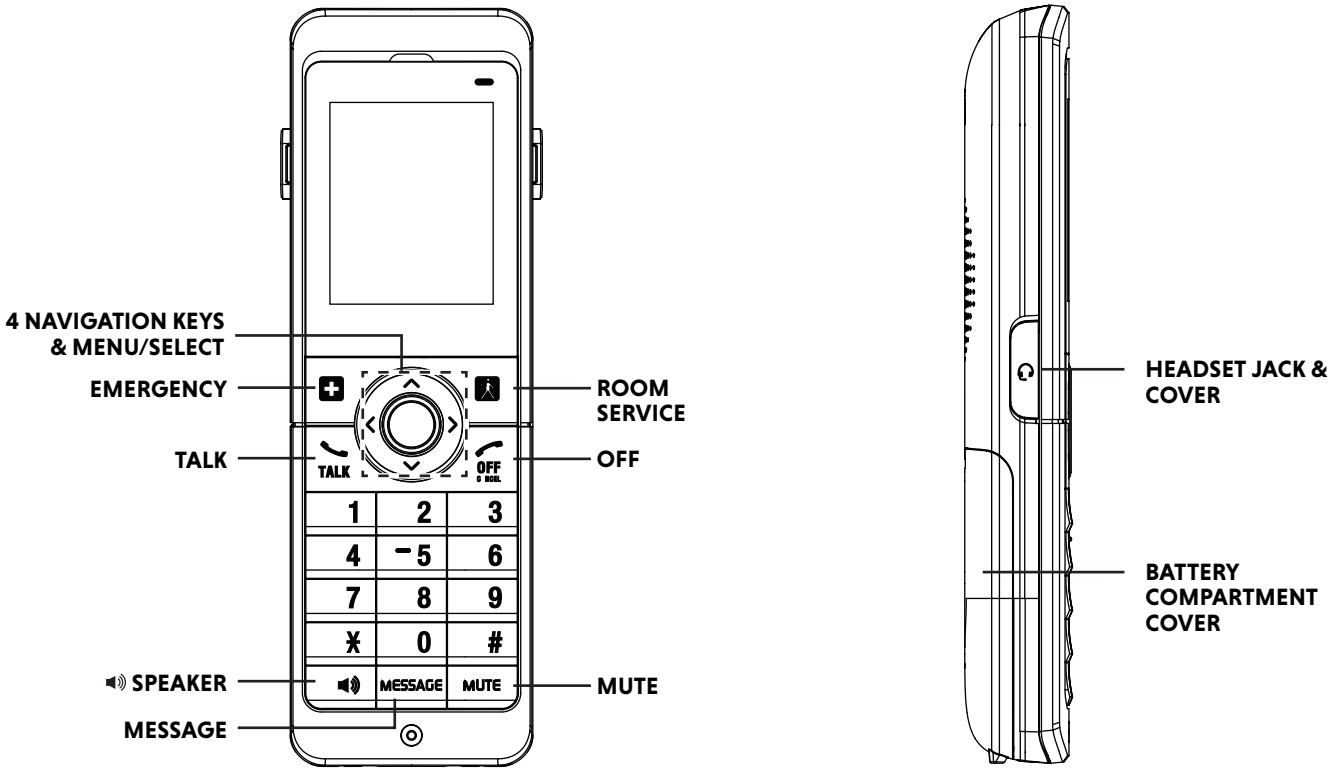
Items contained in the respective telephone package:

Model name	Model number	Parts included
Color SIP Cordless Phone; 1-line	LS-S3410	 Telephone base  Cordless handset Battery
Color SIP Cordless Phone; 1-line	LS-S3410-USB	 Telephone base  Cordless handset Battery  Power adapter for add-on USB charging ports
Color SIP Cordless Phone; 2-line	LS-S3420	 Telephone base  Cordless handset Battery
Color SIP Cordless Phone; 2-line	LS-S3420-USB	 Telephone base  Cordless handset Battery  Power adapter for add-on USB charging ports

Telephone layout

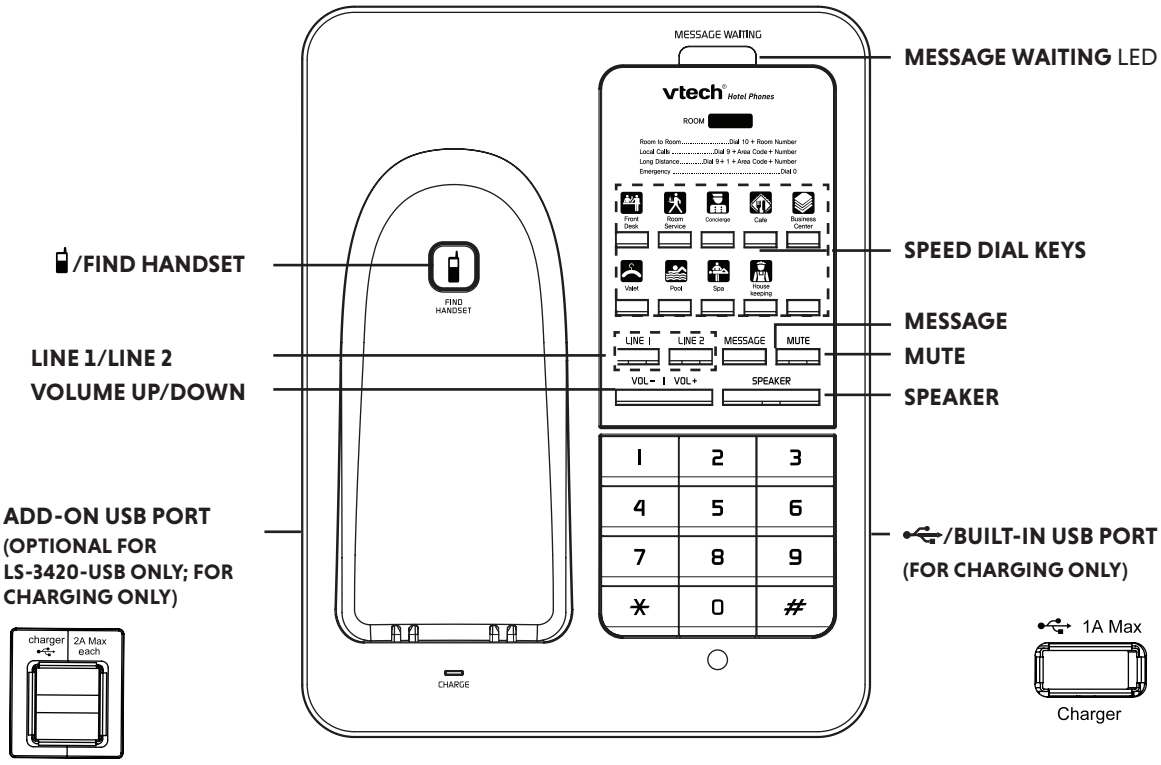
Color SIP Cordless Phone - LS-S3410/LS-S3410-USB

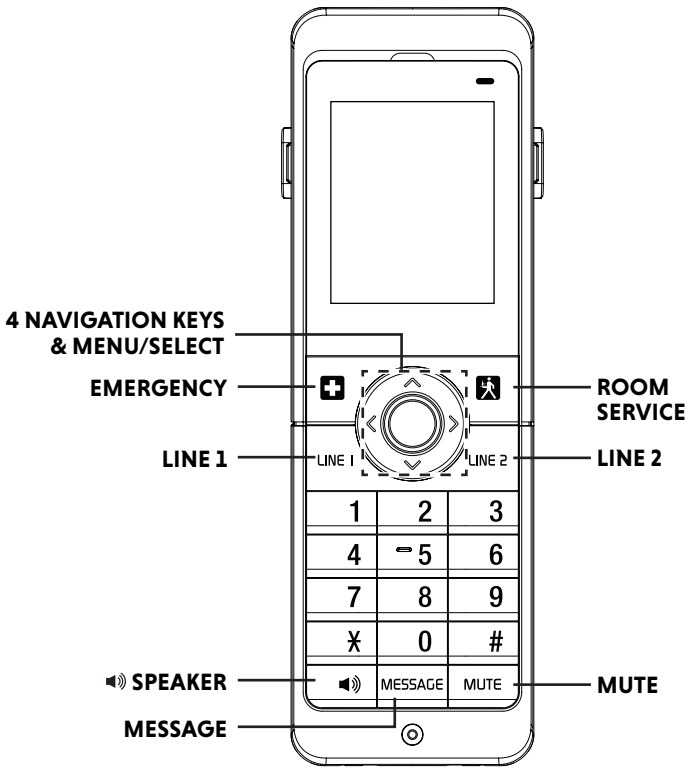


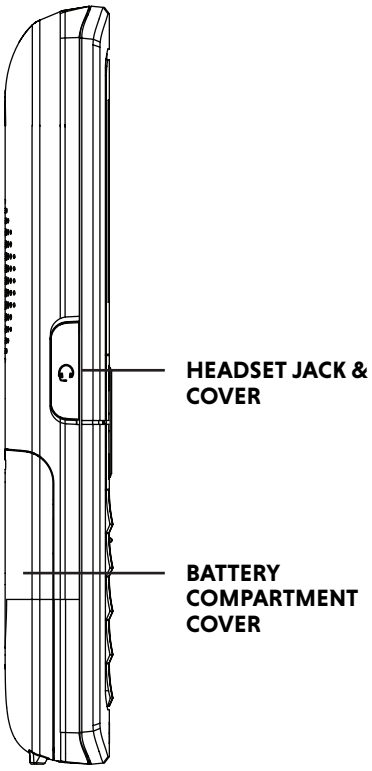


Telephone layout

Color SIP Cordless Phone - LS-S3420/LS-S3420-USB







LED lights patterns

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB/ LS-S3420/LS-S3420-USB

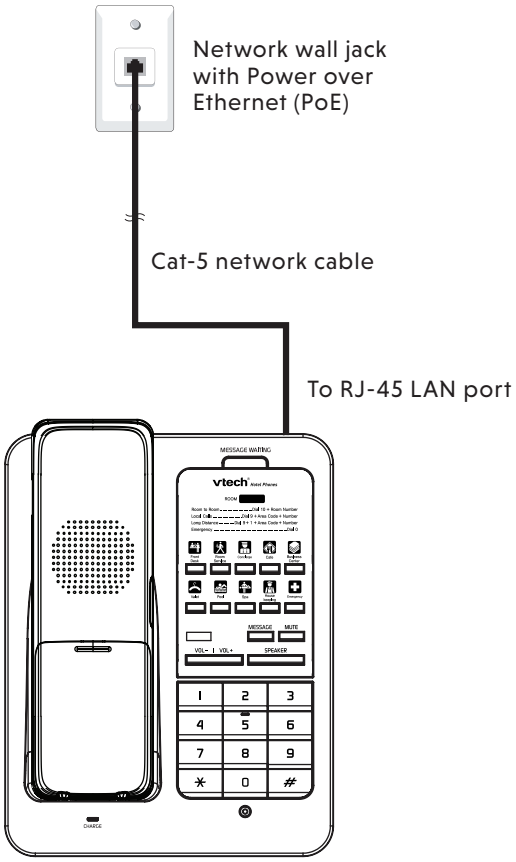
LED light patterns	MUTE	SPEAKER
Steady green	Steady green for five seconds and then turn off after deregistration.	Steady green for five seconds and then turn off after deregistration.
Flashes green slowly	When it is under handset registration or no IP is assigned to base.	When it is under handset registration.
Flashes green quickly	Flashes green quickly once the handset deregistration is initiated, or when no SIP account is ready for use.	Flashes green quickly once the handset deregistration is initiated, or when no SIP account is ready for use.
Toggle	Toggle slowly while neogtiating or checking with provisioning server.	
	Toggle quickly during firmware upgrade or configuration import.	

Installation

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB/LS-S3420/LS-S3420-USB

Telephone base installation

1. Plug a Cat-5 network cable into the RJ-45 LAN port on the telephone base and the network wall jack with Power over Ethernet (PoE).



2. Once installed, the telephone base begins the following initialization and system registration process.
   a. All LED lights turn on, and then go off.
   b. The base will retrieve the IP assigned to it. There will not be LED indication when the IP is assigned.
      • If there is no IP assigned to the base, the **MUTE** LED will flash green slowly.
   c. The base will import the provisioning configuration. The **MUTE** LED and the **SPEAKER** LED will toggle quickly while importing.
      • If there is no import of the provisioning configuration, there will not be LED indication.
   d. The base will initiate the firmware upgrade. The **MUTE** LED and the **SPEAKER** LED will toggle quickly during the firmware upgrade.
      • If there is no firmware upgrade, there will not be LED indication.
   e. The base will register for the SIP account. All LED will go off after SIP account registration.
      • If there is no SIP account registered, both the **MUTE** LED and the **SPEAKER** LED will flash green quickly.

NOTE: For LS-S3410-USB, you need to plug in the power adapter to the base and a standard wall jack, so that the add-on charging port can function.

CAUTION:

Use only the supplied Cat-5 network cable. Cat-5 network cable is not designed for use in any other IT devices. Misuse of Cat-5 network cable on your other IT devices shall be prohibited. To order a replacement, call 1-888-907-2007.

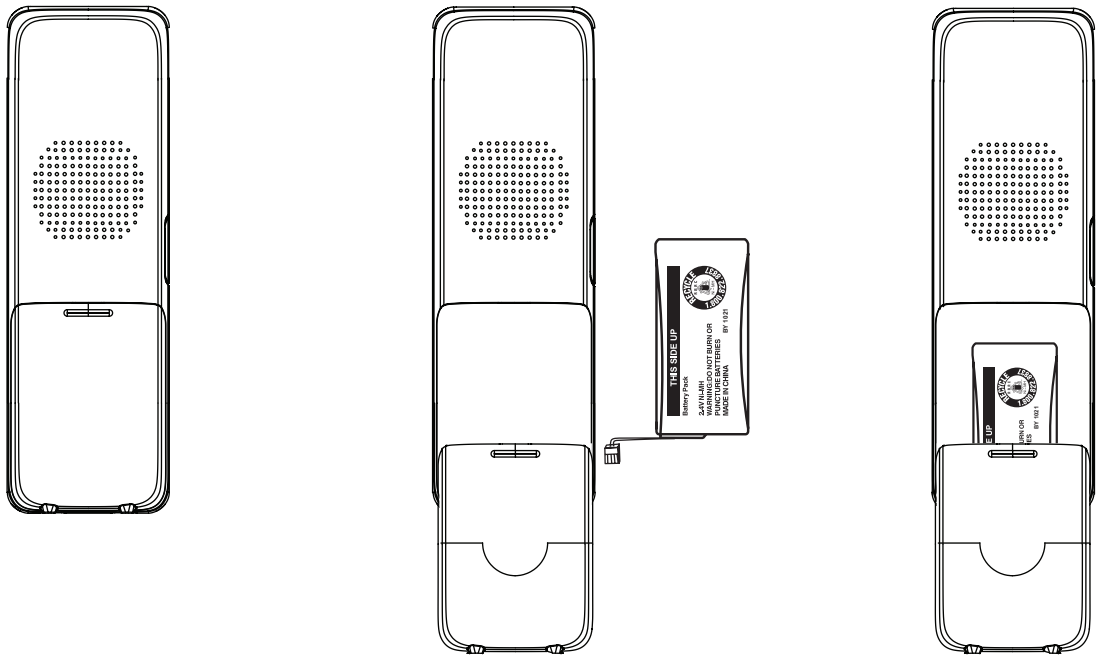
Installation

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB/LS-S3420/LS-S3420-USB

Handset battery installation

Install the battery as shown below.

1. Slide open the handset cover.
2. Plug the battery connector securely into the socket inside the handset battery compartment.
3. Place the battery with the label **THIS SIDE UP** facing up and the wires inside the battery compartment.
4. Slide the handset cover back until it securely clicks into place.



CAUTIONS:

- There may be a risk of explosion if a wrong type of handset battery is used. Use only the supplied rechargeable battery. To order a replacement, call 1-888-907-2007.
- FCC ID is shown on the back of the cordless handset body after the handset cover is removed.
- Dispose of used batteries according to the information in **The RBRC® seal** on page 13.

Installation

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB/LS-S3420/LS-S3420-USB

Handset registration

Method 1:

1. On the cordless handset, press the menu key ◯. You will be prompted to enter the star code.
2. Enter the following star code in sequence: [**1**], [**2**], [**3**], [MUTE].
3. The cordless handset displays **Registering** and **Please wait**.
4. On the telephone base, enter the following star code in sequence: [**1**], [**2**], [**3**], [MUTE] to start registration.

Method 2:

1. On the cordless handset, press the menu key ◯. You will be prompted to enter the star code.
2. Enter the following star code in sequence: [*], [**6**], [**3**], [**6**], [**8**], [MUTE].
3. Press ^ or v to scroll to choose **User Settings**, and then press **ENTER**.
4. Press ^ or v to scroll to choose **Registration**, and then press **ENTER**.
5. Press **ENTER** again to select **Handset**.
6. Press **OK**. The cordless handset displays **Registering** and **Please wait**.
7. On the telephone base, enter the following star code in sequence: [**1**], [**2**], [**3**], [MUTE] to start registration.

You will see whether the registration process is successful on the cordless handset display. If the registration fails, try the above steps again.

Each telephone base accommodates up to 4 cordless handsets. When you already have 4 registered handsets, you can replace one of them by a new handset if any one of the 4 registered handsets is disconnected from the base. For example, it is out of range, or its battery is removed or depleted. The previous registered handset is then deregistered from the telephone base.

Handset battery charging

The battery must be fully charged before using the cordless handset for the first time. The **CHARGE** LED turns on when the cordless handset is charging on the telephone base, charging base or charging stand. The battery is fully charged after 16 hours of continuous charging. For best performance, keep the cordless handset in the telephone base, charging base or charging stand when not in use.

Telephone operation

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB

Using the cordless handset and the telephone base

The cordless handset and the telephone base cannot be used on the same call. However, calls can be switched between the cordless handset and the telephone base speakerphone.

When the cordless handset or the telephone base is in use, the **TALK** key on the cordless handset and the **LINE** key on the telephone base illuminate.

Receive a call

When there is an incoming call, the telephone rings. The **LINE** key and the **MESSAGE WAITING** LED on the telephone base flash, and the **TALK** key on the cordless handset flashes.

To answer a call using the cordless handset while it is not on the telephone base, charging base or charging stand:

On the cordless handset, press **TALK** or **/SPEAKER.** The **TALK** key illuminates when phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

To answer a call using the cordless handset while it is cradled on the telephone base, charging base or charging stand:

Lift the cordless handset from the telephone base, charging base or charging stand. The **TALK** key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

To answer a call using the telephone base:

On the telephone base, press **LINE** or **/SPEAKER.** The **LINE** key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

Place a call

To place a call using the cordless handset:

On the cordless handset, press **TALK** or **/SPEAKER**. Listen for a dial tone and then dial the desired number. The **TALK** key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

To place a call using the telephone base:

On the telephone base, press **LINE** or **/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The **LINE** key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

End a call

To end a call when using the cordless handset:

Press **OFF** on the cordless handset or place it in the telephone base, charging base or charging stand. The call ends when all handsets hang up.

To end a call when using the telephone base:

Press **LINE** or **/SPEAKER**.

Switch a call between the cordless handset and the telephone base speakerphone

- To switch a call from the cordless handset to the telephone base speakerphone, press **/SPEAKER** on the telephone base. After that, press **TALK** or **/SPEAKER** on the cordless handset.
- To switch a call from the telephone base speakerphone to the cordless handset which is not on the telephone base cradle, press **TALK** or **/SPEAKER** on the cordless handset.
  After that press **/SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the cordless handset which is cradled on the telephone base, lift the cordless handset, and then press **TALK** or **/SPEAKER** on it.
  After that, press **/SPEAKER** on the telephone base.

Share a call

During a call, another handset can join the call by pressing **TALK** or **/SPEAKER**.

Handset speakerphone

During a call, press **/SPEAKER** on the cordless handset to switch between speakerphone mode and handset earpiece mode.

Telephone operation

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB

Volume

Listening volume can be adjusted on the cordless handset and the telephone base.

To adjust the listening volume:

- During a call on the handset, press ^ or v on it to adjust the listening volume. The next call returns to the default listening volume.
- During a call on the telephone base, press ^ or v on it to adjust the listening volume. The next call returns to the default listening volume.

Ringer volume of the telephone base can be adjusted.

To adjust the ringer volume of the telephone base:

When the telephone base is idle, press VOL - or VOL + on it to adjust the ringer volume.

Mute

To mute the microphone:

1. During a call, press **MUTE** on the cordless handset. The **MUTE** light turns on when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The **MUTE** light turns off.

Message waiting indicator

When a voice message is received, the **MESSAGE WAITING** LEDs on the telephone base and handset flash.

Find handset

Use this feature to find all registered cordless handsets.

To start paging:

Press **/FIND HANDSET** on the telephone base when the phone is not in use. All idle cordless handsets beep for 60 seconds.

To end paging:

- Press **/FIND HANDSET** again on the telephone base.

-OR-

- Press any key on the cordless handset to stop the paging tone.

USB port

The port on the side of the telephone base can be used for charging devices (up to 1A @ 5V). Charging will be suspended when there is an incoming call or the telephone is in use.

Telephone operation

Color SIP Cordless Phone - LS-S3420/LS-S3420-USB

Using the cordless handset and the telephone base

The cordless handset and the telephone base cannot be used on the same call. However, calls can be switched between the cordless handset and the telephone base speakerphone.

When the cordless handset or the telephone base is in use, the corresponding line keys on the cordless handset and the telephone base illuminate.

Receive a call

When there is an incoming call, the telephone rings. The corresponding line key and the **MESSAGE WAITING** LED on the telephone base flash, and the corresponding line key on the cordless handset flashes.

To answer a call using the cordless handset while it is not on the telephone base, charging base or charging stand:

On the cordless handset, press the flashing line key for the ringing line, or press **/SPEAKER**. It automatically connects to the ringing line. The respective line key illuminates when the phone line in use. The **/SPEAKER** key illuminates when in speakerphone mode.

To answer a call using the cordless handset while it is resting on the telephone base, charging base or charging stand:

Pick up the cordless handset from the telephone base. It automatically connects to the ringing line. The respective line key illuminates when the phone line is in use.

To answer a call using the telephone base:

On the telephone base, press the flashing line key, or **/SPEAKER** to pick up the ringing line. The respective line key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

Place a call

To place a call using the cordless handset:

On the cordless handset, press **LINE 1**, **LINE 2** or **/SPEAKER**. Listen for a dial tone and then dial the desired number. The respective line key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

To place a call using the telephone base:

On the telephone base, press **LINE 1**, **LINE 2** or **/SPEAKER**. Listen for a dial tone and then dial the desired number, or press a Speed Dial key to dial a programmed number. The line key illuminates when the phone line is in use. The **/SPEAKER** key illuminates when in speakerphone mode.

End a call

To end a call when using the cordless handset:

Press **OFF** on the cordless handset or place it in the telephone base, charging base or charging stand. The call ends when all handsets hang up.

To end a call when using the telephone base:

Press **/SPEAKER** or the respective line key on the telephone base.

Switch a call between the cordless handset and the telephone base speakerphone

- To switch a call from the cordless handset to the telephone base speakerphone, press **/SPEAKER** on the telephone base.

  After that, press **TALK** or **/SPEAKER** on the cordless handset.
- To switch a call from the telephone base speakerphone to the cordless handset which is not on the telephone base cradle, press **TALK** or **/SPEAKER** on the cordless handset.

  After that press **/SPEAKER** on the telephone base.
- To switch a call from the telephone base speakerphone to the cordless handset which is cradled on the telephone base, lift the cordless handset, and then press **TALK** or **/SPEAKER** on it.

  After that, press **/SPEAKER** on the telephone base.

Share a call

During a call on line 1 or line 2, press the respective line key or **/SPEAKER**.

Handset speakerphone

During a call on the handset, press **/SPEAKER** on the cordless handset to switch between speakerphone mode and handset earpiece mode.

Speakerphone

When the telephone is idle, press **/SPEAKER** on the cordless handset or the telephone base. The first available line is selected, starting with line 1.

Telephone operation

Color SIP Cordless Phone - LS-S3420

Volume

Listening volume can be adjusted on the cordless handset and the telephone base.

To adjust the listening volume:

- During a call on the handset, press ^ or v on it to adjust the listening volume. The next call returns to the default listening volume.
- During a call on the telephone base, press ^ or v on it to adjust the listening volume. The next call returns to the default listening volume.

Ringer volume of the telephone base can be adjusted.

To adjust the ringer volume of the telephone base:

When the telephone base is idle, press ^ or v on it to adjust the ringer volume.

Message waiting indicator

When a voice message is received, the **MESSAGE WAITING** LEDs on the telephone base and handset flash.

Mute

To mute the microphone:

1. During a call, press **MUTE** on the cordless handset or the telephone base. The **MUTE** lights turns on when the mute function is turned on. You can hear the party on the other end but they cannot hear you.
2. Press **MUTE** again to resume the conversation. The **MUTE** light turns off.

Find handset

Use this feature to find all registered cordless handsets.

To start paging:

Press **/FIND HANDSET** on the telephone base when the phone is not in use. All idle cordless handsets beep for 60 seconds.

To end paging:

- Press **/FIND HANDSET** again on the telephone base.

-OR-

- Press any key on the handset to stop the paging tone.

USB port

The port on the side of the telephone base can be used for charging devices (up to 1A @ 5V). Charging will be suspended when there is an incoming call or the telephone is in use.

Appendix

Troubleshooting

If you have difficulty with the telephones, please try the suggestions below. For customer service, visit our website at www.vtechhotelphones.com or call 1-888-907-2007.

The telephone does not work at all.

- Make sure a Cat-5 network cable is plugged into the LA**N** port of the telephone base and the network wall jack with Power over Ethernet (PoE).
- Make sure the battery is installed and charged correctly. For optimum daily performance, return the cordless handset to the telephone base, charging base or charging stand after use.
- Unplug the Cat-5 network cable from the network wall jack. Wait for approximately 15 seconds, then plug it back in.
- Charge the battery in the cordless handset for up to 16 hours.
- If the battery is completely depleted, charge the battery for at least 30 minutes before use.
- Remove the battery and then install it again. If that still does not work, it may be necessary to purchase a new battery.
- Disconnect the telephone base from the network wall jack and connect a different working telephone. If the other telephone does not work, the problem is probably in the wiring or network server.
- Make sure the energy-saving charging mode is not activated. If this mode is activated, all telephone functions will be disabled, except battery charging (page 16).

There is no dial tone.

- Try all the above suggestions.
- The Cat-5 network cable may be defective. Install a new Cat-5 network cable.
- Make sure your network is providing Power over Ethernet (PoE).
- Disconnect the telephone base from the network wall jack and connect a different working telephone. If there is no dial tone on this telephone either, the problem is in your wiring or network server.
- Make sure the initialization and system registration process completes. The speakerphone key blinks twice every second if there are errors with the initialization and system registration process.
- Make sure the energy-saving charging mode is not activated. If this mode is activated, all telephone functions will be disabled, except battery charging (page 16).

I cannot dial out.

- Try all the above suggestions.
- Make sure there is a dial tone before dialing. It is normal if the cordless handset takes a second or two to synchronize with the telephone base before producing a dial tone. Wait an extra second before dialing.
- A prefix may be required for dialing some internal or external calls.
- Check your server settings. If other telephones in your hotel are having the same problem, the problem is in the wiring or network server. Contact your telephone service provider (charges may apply).

The Speed Dial key does not work at all.

- The Speed Dial key may not be properly programmed.

The telephone cannot register to the network server.

- Make sure your network is providing Power over Ethernet (PoE).
- Make sure the initialization and system registration process completes.
- If there is an error during the initialization and system registration process, the **/SPEAKER** key flashes twice every second. Disconnect the Cat-5 network cable from the network wall jack and connect it back into the network wall jack with Power over Ethernet (PoE) to start the initialization and system registration process again.

The LOW BATTERY LED illuminates on the cordless handset.

- Place the cordless handset in the telephone base, charging base or charging stand for recharging.
- Remove the battery and then install it again. Use it until fully depleted, then charge the cordless handset in the telephone base, charging base or charging stand for up to 16 hours.
- If the above measures do not correct the problem, replace the battery.

Appendix

Troubleshooting

The battery does not charge in the cordless handset or the battery does not accept charge.

- Make sure the cordless handset is placed in the telephone base, charging base or charging stand correctly. The **CHARGE** LED should be on.
- Remove the battery and then install it again. Then charge for up to 16 hours.
- If the cordless handset is in the telephone base, charging base or charging stand but the **CHARGE** LED is not on, refer to **The CHARGE LED is off** below.
- If the battery is completely depleted, charge the cordless handset for at least 30 minutes before use.
- If the above measures do not correct the problem, replace the battery.

The CHARGE LED is off.

- Clean the charging contacts on the cordless handset, telephone base, charging base and/or charging stand each month with a pencil eraser or a dry non-abrasive fabric.
- Make sure the Cat-5 network cable is plugged in correctly and securely.
- Unplug the Cat-5 network cable. Wait for 15 seconds before plugging it back in.

The telephone does not ring when there is an incoming call.

- Make sure the Cat-5 network cable is plugged into the LA**N** port of the telephone base and the network wall jack with Power over Ethernet (PoE).
- The cordless handset may be too far from the telephone base. Move it closer to the telephone base.
- Check your server or telephone administrative settings.
- If other telephone in your hotel are having the same problem, the problem is in the wiring or network server. Contact your telephone service provider (charges may apply).
- Other electronic products such as HAM radios and other DECT phones can cause interference with your cordless phone. Try installing your phone as far away as possible from these types of electronic devices.
- The Cat-5 network cable may be defective. Install a new Cat-5 network cable.
- Remove the battery and then install it again. Then place the cordless handset in the telephone base. Wait for the handset to synchronize with the telephone base. Allow up to one minute for this to take place.

The cordless handset beeps and is not performing normally.

- Make sure the Cat-5 network cable is plugged into the LA**N** port of the telephone base and the network wall jack with Power over Ethernet (PoE).
- Check your server or telephone administrative settings.
- Disconnect the telephone base from the network wall jack and connect a different working telephone. If the other telephone has the same problem, the problem is in the wiring or network server. Contact your telephone service provider (charges may apply).
- Other electronic products such as HAM radios and other DECT phones can cause interference with your cordless phone. Try installing your phone as far away as possible from these types of electronic devices.

There is interference during a telephone conversation, or the call fades in and out when I am using the cordless handset.

- The cordless handset may be out of range. Move the handset closer to the telephone base or adjust the setting of RF transmission power.
- Other electronic products such as HAM radios and other DECT phones can cause interference with your cordless phone. Try installing your phone as far away as possible from these types of electronic devices.
- If other telephones in your hotel are having the same problem, the problem is in the wiring or network server. Contact your telephone service provider (charges may apply).

I hear other calls when using the telephone.

- Disconnect the telephone base from the network wall jack and connect a different working telephone. Check your server settings. If calls are still not clear, the problem is probably in the wiring or network server. Contact your telephone service provider (charges may apply).

I hear noise on the cordless handset and the keys do not work.

- Make sure a Cat-5 network cable is plugged in correctly and securely.
- Unplug the Cat-5 network cable. Wait for 15 seconds before plugging it back in.

Appendix

Precautions for users of implanted cardiac pacemakers

Cardiac pacemakers (applies only to digital cordless telephones):

Wireless Technology Research, LLC (WTR), an independent research entity, led a multidisciplinary evaluation of the interference between portable wireless telephones and implanted cardiac pacemakers. Supported by the U.S. Food and Drug Administration, WTR recommends to physicians that:

Pacemaker patients

- Should keep wireless telephones at least six inches from the pacemaker.
- Should NOT place wireless telephones directly over the pacemaker, such as in a breast pocket, when it is turned ON.
- Should use the wireless telephone at the ear opposite the pacemaker.

WTR's evaluation did not identify any risk to bystanders with pacemakers from other persons using wireless telephones.

Operating range

The cordless telephone operates with the maximum power allowed by the Federal Communications Commission (FCC). Even so, the cordless handset and telephone base can communicate over only a certain distance - which can vary with the locations of the telephone base, cordless handset, the weather, and the layout of the hotel.

When the cordless handset is out of range while on a call, the cordless handset rapidly beeps three times.

If there is a call while the handset is out of range, it may not ring, or if it does ring, the call may not connect well when you answer the call. Move closer to the telephone base to answer the call.

If the handset moves out of range during a telephone conversation, there may be interference.

To improve reception, move closer to the telephone base.

About cordless telephones

- **Privacy:** The same features that make a cordless telephone convenient create some limitations. Telephone calls are transmitted between the telephone base and the cordless handset by radio waves, so there is a possibility that the cordless telephone conversations could be intercepted by radio receiving equipment within range of the cordless handset. For this reason, you should not think of cordless telephone conversations as being as private as those on corded telephones.
- **Network wall jack:** The telephone base of the cordless telephone must be connected to a working network wall jack with Power over Ethernet (PoE). Calls cannot be made from the cordless handset if the telephone base is unplugged or switched off.
- **Potential TV interference:** Some cordless telephones operate at frequencies that may cause interference to televisions and VCRs. To minimize or prevent such interference, do not place the telephone base of the cordless telephone near or on top of a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR often reduces or eliminates the interference.
- **Rechargeable batteries:** Exercise care in handling batteries in order not to create a short circuit with conducting material such as rings, bracelets and keys. The battery or conductor may overheat and cause harm. Observe proper polarity between the battery and the battery charger.
- **Nickel-metal hydride rechargeable batteries:** Dispose of these batteries in a safe manner. Do not burn or puncture the battery. Like other batteries of this type, if burned or punctured, they could release caustic material which could cause injury.

The RBRC® seal

The RBRC® seal on the nickel-metal battery indicates that VTech Communications, Inc. is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful lives, when taken out of service within the United States and Canada.

The RBRC® program provides a convenient alternative to placing used nickel-metal batteries into the trash or municipal waste, which may be illegal in your area.

VTech's participation in RBRC® makes it easy for you to drop off the spent battery at local retailers participating in the RBRC® program or at authorized VTech product service centers. Please call **1 (800) 8 BATTERY™** for information on Ni-MH battery recycling and disposal bans/restrictions in your area. VTech's involvement in this program is part of its commitment to protecting our environment and conserving natural resources.

RBRC® is a registered trademark of Rechargeable Battery Recycling Corporation.

Appendix

FCC, ACTA and IC regulations

FCC Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies 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 interference received, including interference that may cause undesired operation.

For cordless telephone only - Privacy of communications may not be ensured when using this telephone.

For cordless telephone only - To ensure safety of users, the FCC has established criteria for the amount of radio frequency energy that can be safely absorbed by a user or bystander according to the intended usage of the product. This product has been tested and found to comply with the FCC criteria. The handset may be safely held against the ear of the user. The telephone base shall be installed and used such that parts of the user's body other than the hands are maintained at a distance of approximately 20 cm (8 inches) or more.

This Class A digital apparatus complies with Canadian ICES-003.
CAN ICES-3 (A)/NMB-3(A)

Industry Canada

This device complies with Industry Canada's licence-exempt RSSs.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this telephone.

The term ''IC:'' before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications..

Appendix

Energy-saving charging mode

When this mode is activated, all telephone functions, except handset battery charging, will be disabled.

To activate the energy-saving charging mode in LS-S3410/LS-S3410-USB/LS-S3420/LS-S3420-USB telephone base:

- When you see the slide switch inside the right hole, use a sharp object, such as a paper clip, to slide it to the left side.

To deactivate the energy-saving charging mode:

- When you see the slide switch inside the left hole, use a sharp object, such as a paper clip, to slide it to the right side.

Maintenance

Taking care of your telephone
Your telephone contains sophisticated electronic parts, so it must be treated with care.

Avoid rough treatment
Place the handset down gently. Save the original packing materials to protect your telephone if you ever need to ship it.

Avoid water
Your telephone can be damaged if it gets wet. Do not use the handset outdoors in the rain, or handle it with wet hands. Do not install the telephone base near a sink, bathtub or shower.

Electrical storms
Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electrical appliances during storms.

Cleaning your telephone
Your telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or mild soap. Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in the water. If the telephone base should fall into the water, DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE NETWORK CABLE FROM THE WALL. Then remove the telephone by the unplugged cords.

Appendix

Technical specifications

Color SIP Cordless Phone - LS-S3410/LS-S3410-USB/LS-S3420/LS-S3420-USB

Power requirement	Telephone base: PoE powered Handset: 2.4V Ni-MH battery USB charging port: 1A max. Add-on USB charging ports (for LS-S3410-USB/LS-S3420-USB only): 2A max. each
Frequency control	Crystal controlled PLL synthesizer
Transmit frequency	Handset: 1921.536-1928.448 MHz Telephone base: 1921.536-1928.448 MHz
Channels	5
Nominal effective range	Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.
Speed Dial memory	Telephone base: up to 10 memory locations; up to 32 digits

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