CT-101

CT-101 USB CORDLESS PHONE

User's Manual

VERSION 0.99A

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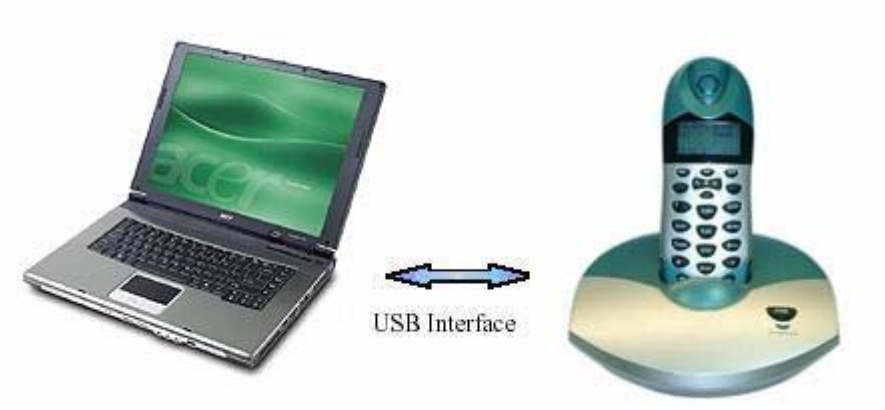
CT-101 USB CORDLESS PHONE

1.1 Descriptions and Overview

This CT-101 USB CORDLESS PHONE solution was base on a powerful USB Audio Single Chip and through external Telephony components to provide advanced solution for PC Internet soft-phone and cordless phone communication.



System Block Diagram Of USB Cordless Skype Phone Solution

This CT-101 USB Cordless Skype Phonesolution was directly support Skype controll on PC side and can switch between traditional PSTN phones. It support all kind of analog telephone devices and analog PBX system. User can plug in cordless phone just like general PSTN calling application and through a button switch to skype for VOIP function. You can use this kind of device for most of skype functions via cordless phone.

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2 Package Contents

The package contains things listed below.

1. Handset
2. Cordless Station
3. Telephone Cable
4. Power Adapter DC 9V/500mA
5. USB Cable
6. DC Battery 3.6V/600 mAh
7. CD-ROM (Driver and User Manual)

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1. Hardware Features

- Wi-Fi friendly 2.4GHz ISM band frequency.
- Hopping technology.
- Support PSTN (Public Subscribers Telephone Network) call.
- Support Skype peer to peer internet call.
- Support Skype feature.
- Support Skype Phone book review on the Handset.
- Support 3 parties conference call conversation for Handset, PSTN and Skype.
- Support hands free feature on the handset unit.
- Support multiple handsets in a system.(Up to 6 handsets can registered)
- Support PSTN and Skype phone call transfer feature to other handset.
- Support PSTN Caller ID feature(ETSI and Bellcore 202)
- Support USB Audio bypass mode in order to allow HS as a wireless transceiver for MSN, Google talk, Yahoo Messenger and SIP phone PC software.
- Talk time around 3 hours.**(New batter please charge over 15 hours)**
- Standby Time around 120 hours. **(Cordless station have to power on)**

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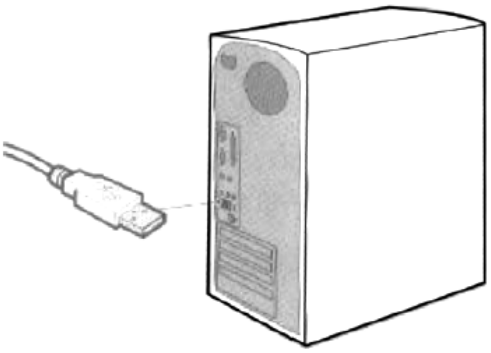
2. HARDWARE INSTALLATION

1. **Open the Handset back cover and set up the battery.**

2. **Connect PSTN line to CT-101's LINE JACK.**

3. **Connect power adapter plug to CT-101's DC JACK.**

4. **Connect USB connector to the computer**



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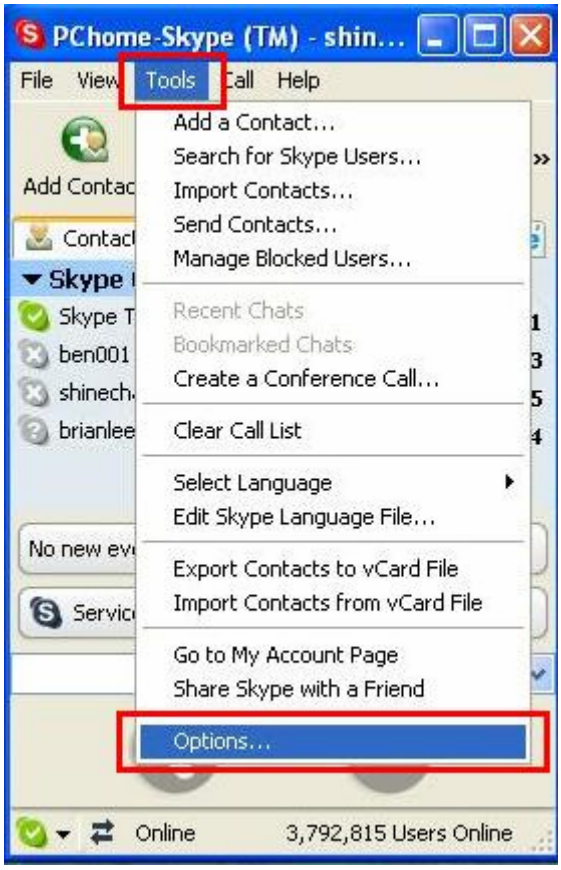
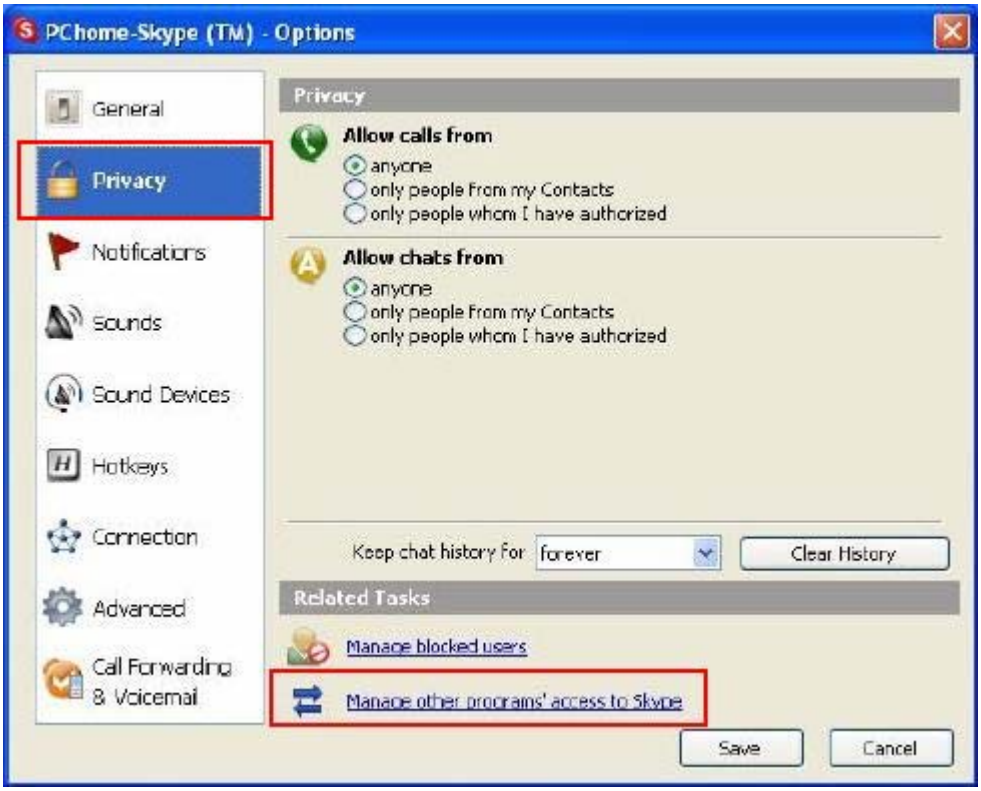
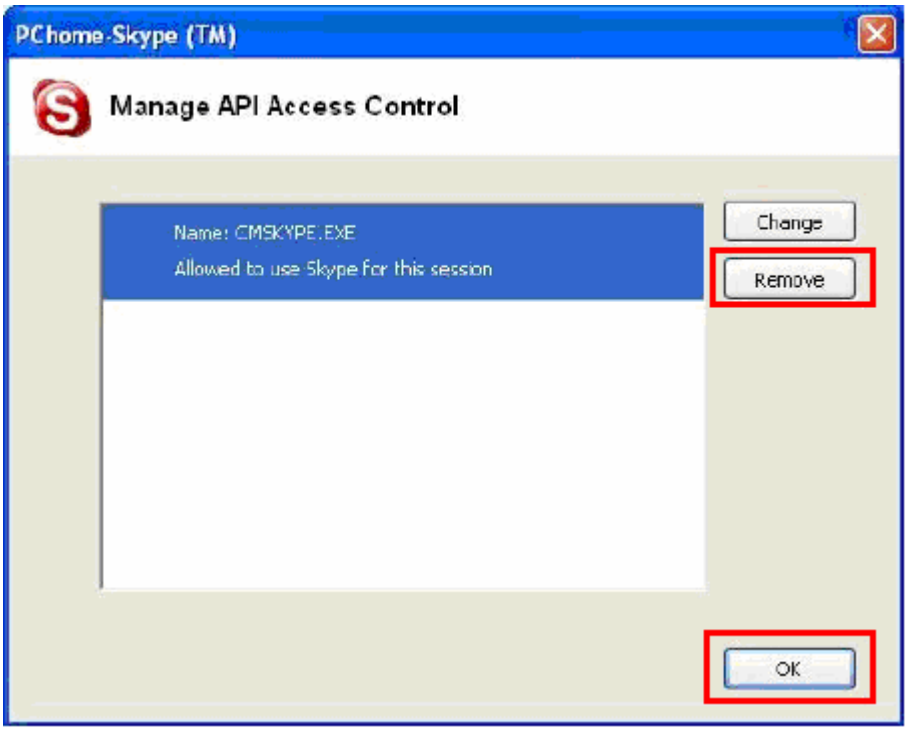
5. Recommend : Before install USB Skype phone utility program please keep no other programs access to Skype

Step1. Click **Tools** > **Options** > **Privacy** > **Manage other program's access to Skype**





Step 2. Select All of the **.EXE** file and click **Remove** and **OK**.



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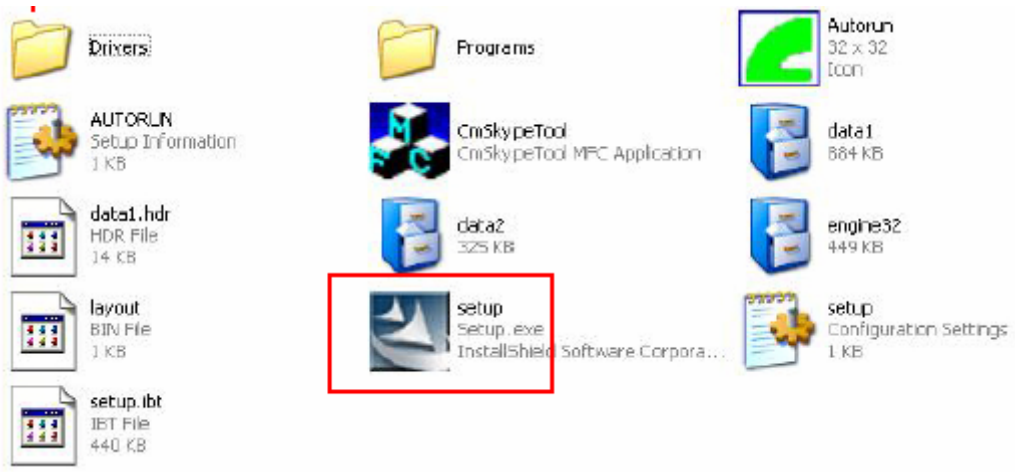
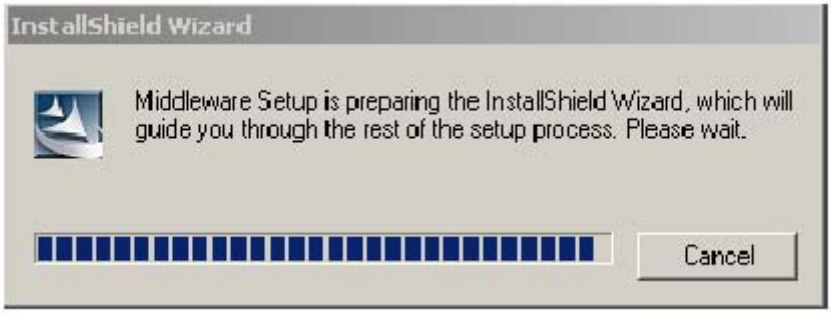
6. SOFTWARE INSTALLATION

The software function and setting step as follow：

Step-1：Plug in CT-101 USB Cordless Skype Phone and Insert Installation CD on your CD/ DVD ROM, the program will pop up auto run information then execute setup program.



Execute Setup.exe program as below:



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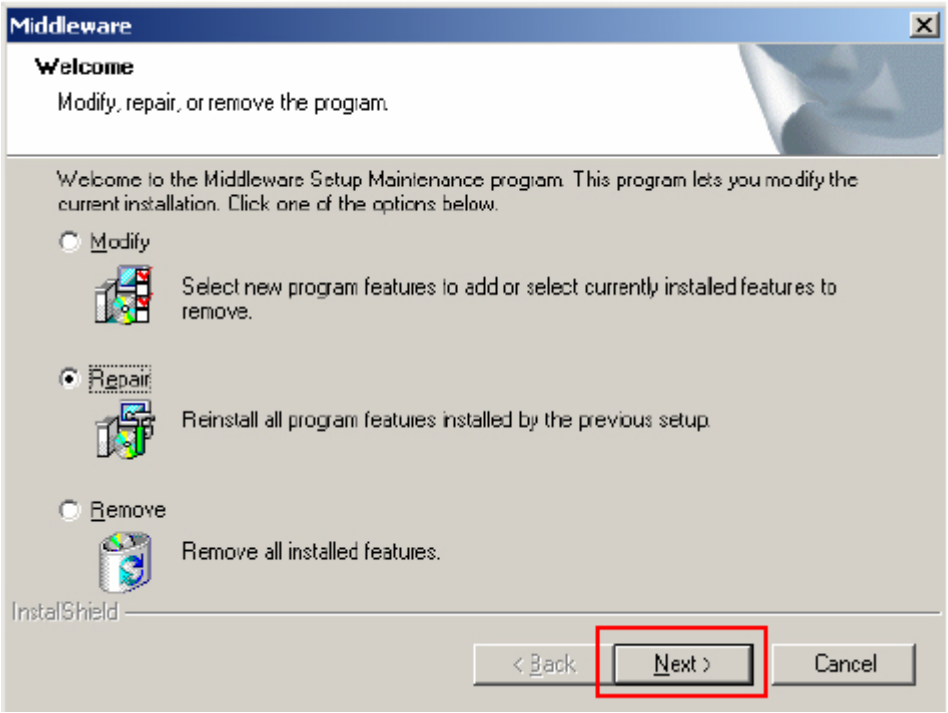
Notification：

If you have installed this program before the screen will pop-up an dialogue box to remind user and provided 3 options for selected.

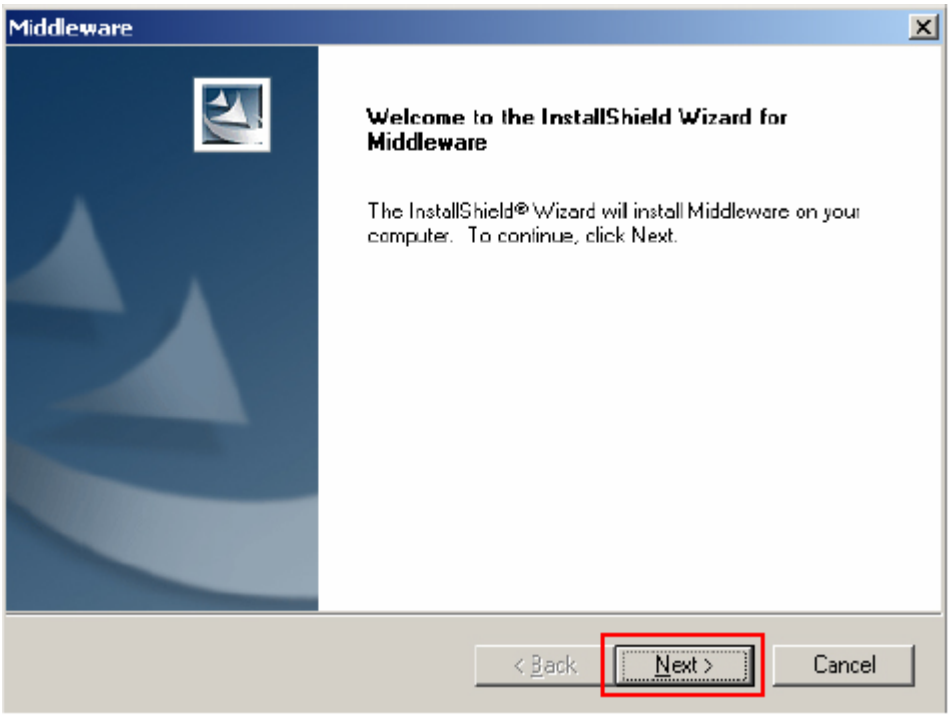
1 is to fix previously software version.

2 is to re-install this software again.

3 is to remove this software. For general condition please choice 2 for continue.



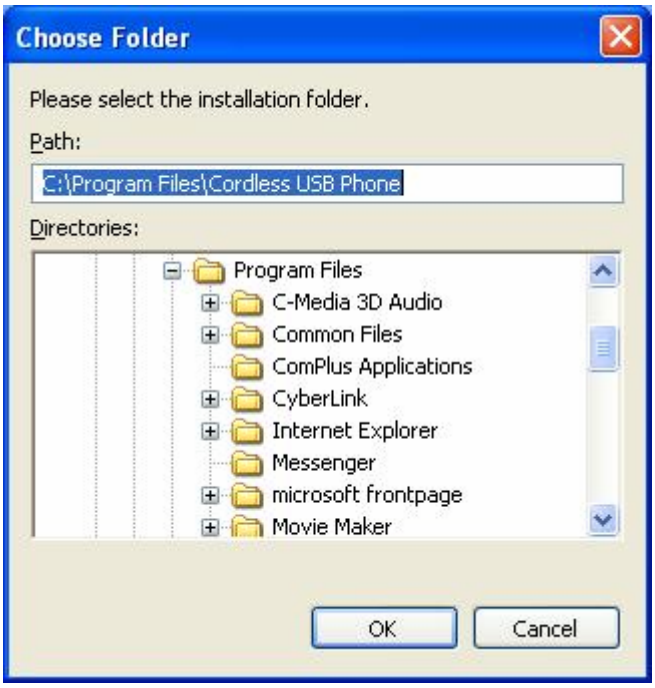
Step-2： Please click 「Next」for install Middleware AP.



Step-3：Install program will pop up a window for folder selected. If you want to choose another install path please click 「Change」button or just click 「Next」for continue.

Install the program to the default path please click "Next"

Click "Change" install the program to other path.



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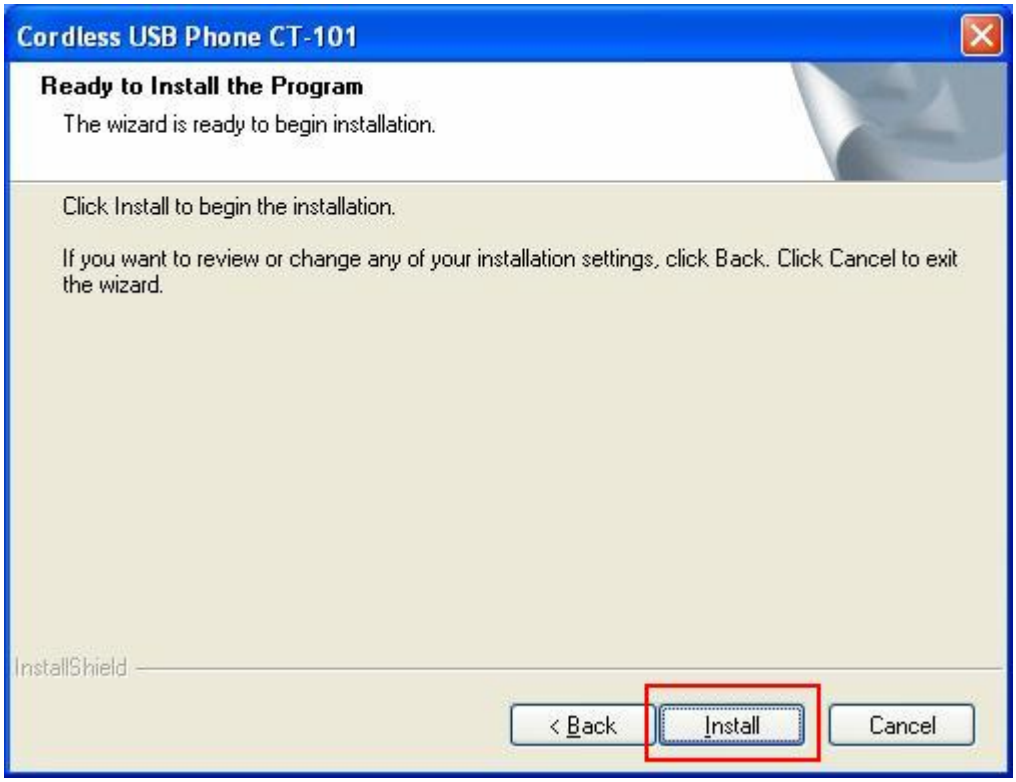
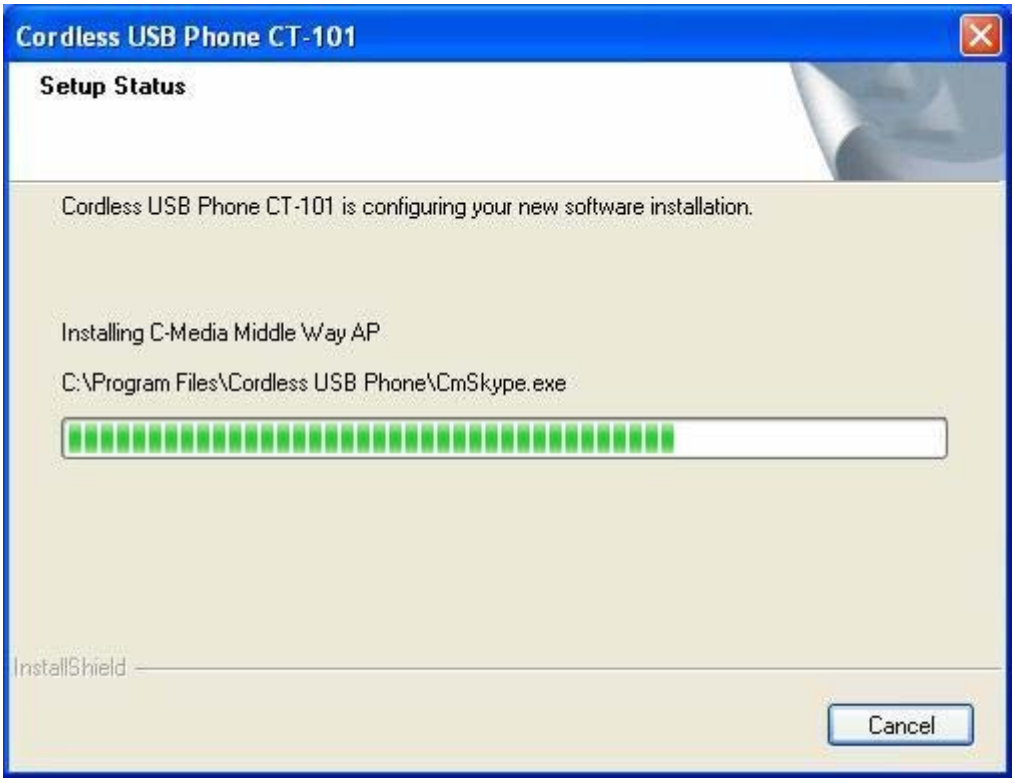
Step-4：Please Click 「Install」for beginning installation.



Step-5：While you click 「Install」on step-4, the program will start to install Middleware application and then install Driver.



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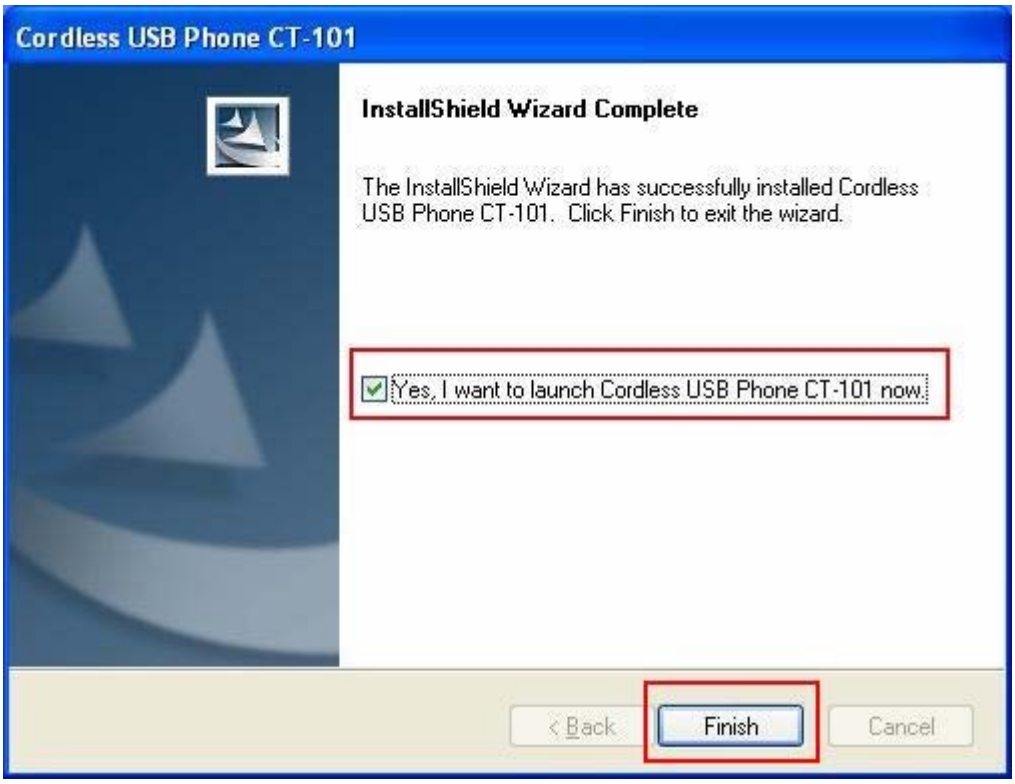
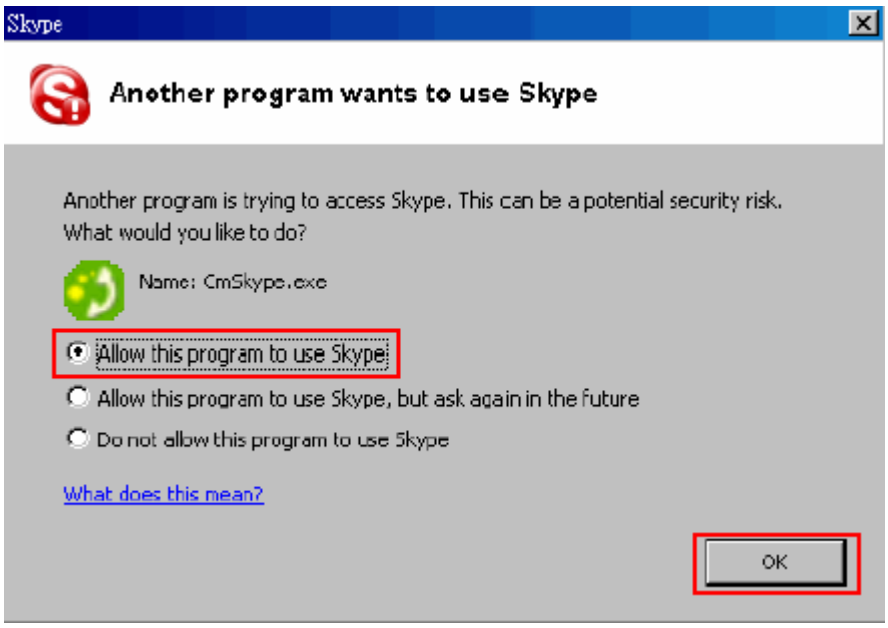
Step-6：After installed Middleware Application and Driver, program will pop up a window for completed and asking for launch program. Please click 「Finish」for complete and launch Middleware AP.



Step-7：The Skype will display a window as below after the driver is installed. Check "Allow this PROG to use Skypetm" and click "OK"



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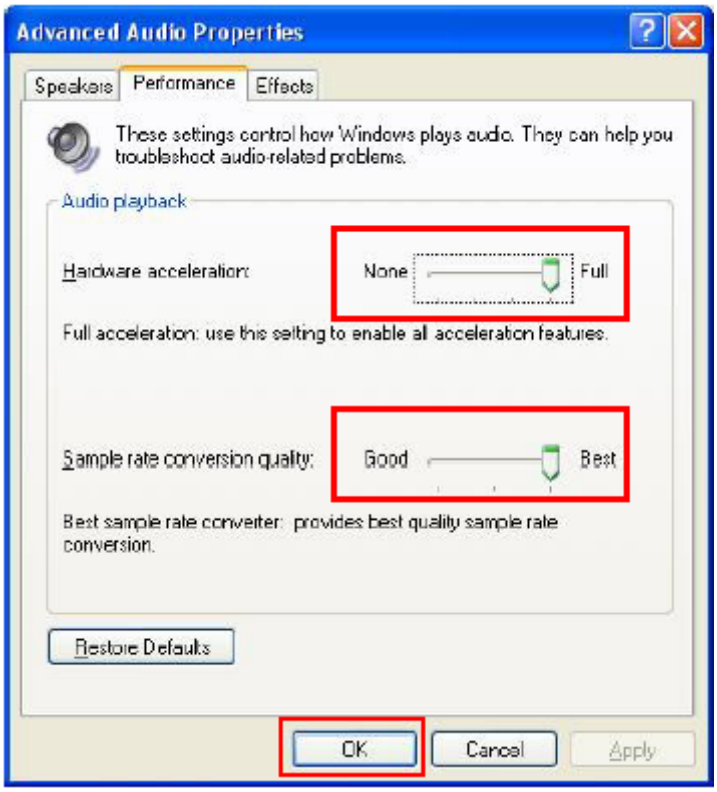
7. SYSTEM REQUIREMENTS

To make CT-101 performing the most, make sure your PC meets the following minimum system requirements:

- Windows 2000 (SP1~SP4), Windows XP (SP1~SP2)
- Intel Pentium 4 or AMD K7 CPU above
- Use At least 128MB RAM (Win2000 and WinXP)
- At least 50 MB hard disk space
- Skype version 1.3.0.X and above have been installed
- USB 1.1 /2.0
- Internet Connection (any broadband: cable, DSL, etc.)
- Public Service Telephone Network (PSTN)
- For good sound quality, please adjust your system's H/W acceleration and Sample rate conversion quality to Full and Best.



Note:

1. Before users install CT-101 Telephone Adapter software application and driver, user must make sure that CT-101 Multi-Function Skype Adapter have connected to PC system already.
2. While user completed installation procedure the system will keep on board audio priority and lock Skype to using this CT-101 device be primary audio device.
4. If your PC system has more than one USB connecting port, please remember which one is connected for install, andnext time when you plug this CT-101 Device to PC, you have to plug the same port for initialize the software driver.

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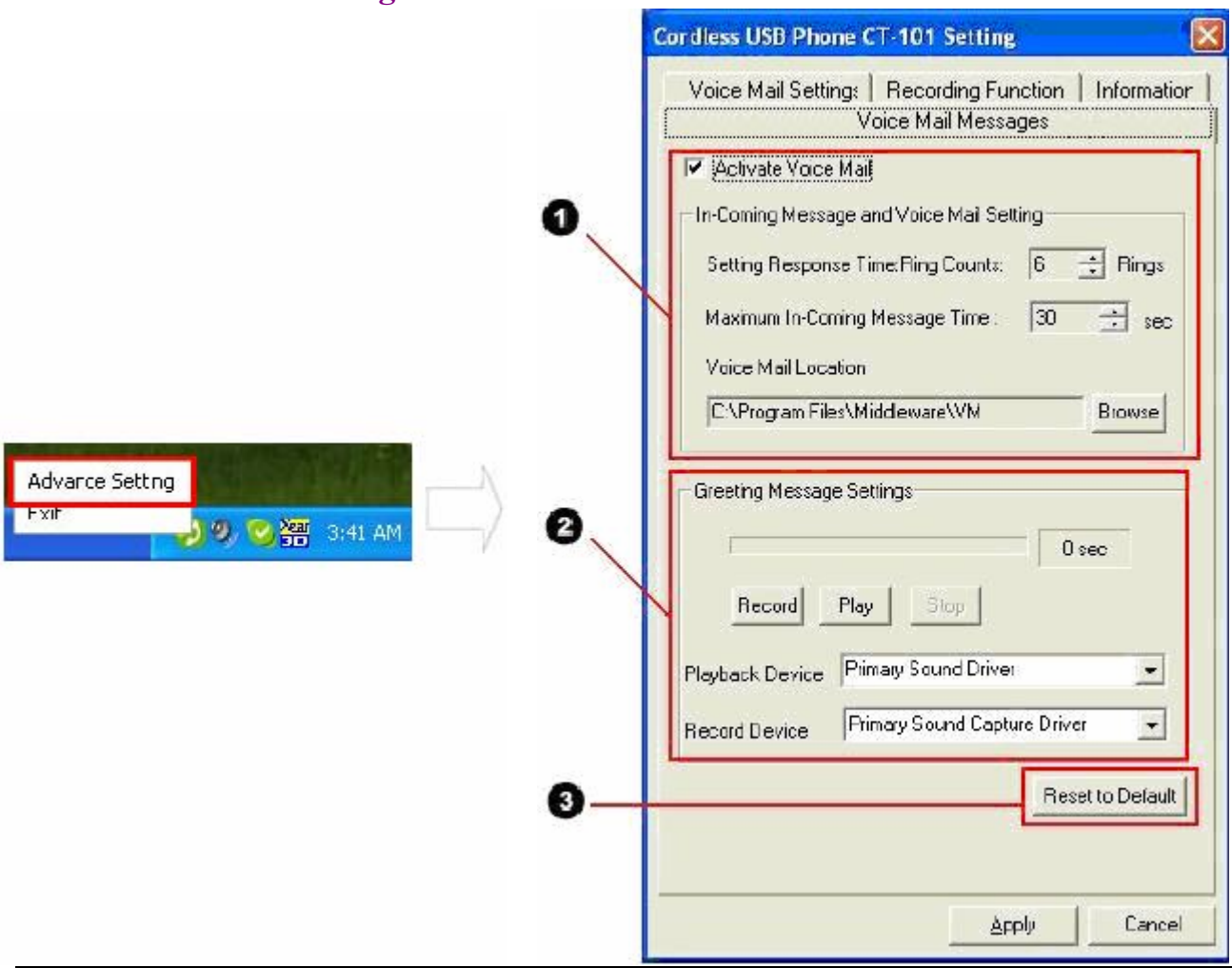
8. APPLICATION GUI FUNCTION DESCRIPTION

8.1 Voice Mail Setting

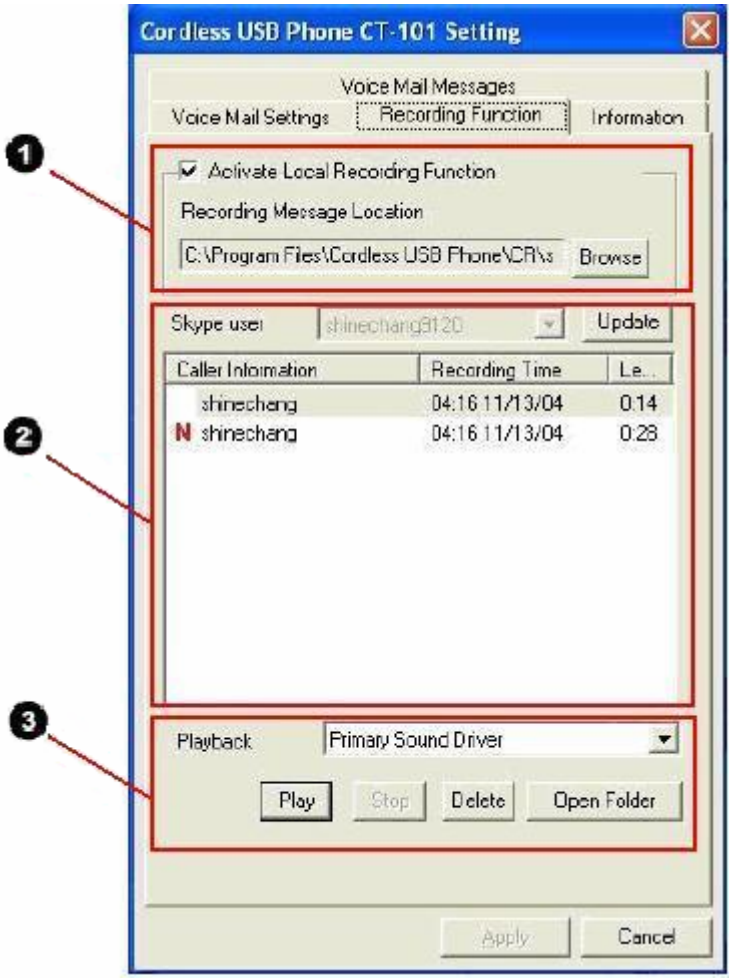


Voice Mail Settings		
1	Active Voice Mail	Enable Voice function.
	Setting Response Time	User can setting how many rings to enter the voice mail box while no one answer or pick up in-coming call
	Maximum In-coming Message Time	Maximum In-coming Message Time. User can setting and limited the voice message length in mailbox. (This function can avoid voice files out of storage size.)
	Voice Mail Location	User can choice location or create new folder for voice mailbox. Default path is c:\program files\middleware\VM\skype User name
2	Record	User can recording own greeting message for voice mail answer response, when user click this button the record bar will showing recording time for reminding
	Play	After greeting message recorded user can immediately playback it for confirmation
	Stop	While user is recording or playback greeting messages click this button can stop it
	Playback Device	User can through this function to select system playback audio device for listening greeting message
	Record Device	User can through this function to select system record audio device for recording greeting message
3	Reset to default	Click this button will setting all voice mail functions to default value

∗ Greeting Message Setting function of Voice Mail is only for Skype In use.

∗ The Phone call from PSTN come in is use the default Greeting Message

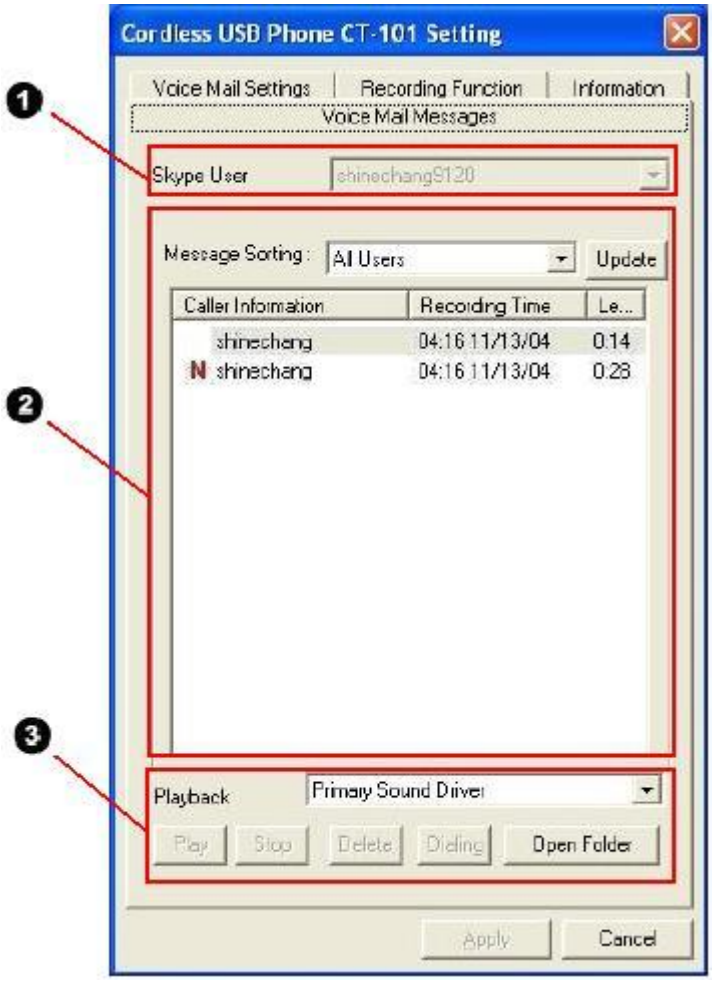
8.2 Recording Function



Recording Function		
1	Activate Local Recording Function	Enable recording function for communication record.
	Recording Message Location rowse	User can assign recording message saving to any location. Default path is c:\program files\middleware\CR**skype User name**
2	Skype User	Selected different Skype account for recording message quick search.
	Update	Refresh all of new recording messages and update latest message to information window.
	Recording Messages Information	This window is show up caller information, record date/time and record length of each message. Users can directly moving cursor to each message for play or delete. Caller information N is indicated **NEW** recording file from Skype.
3	Playback Device	User can through this function to select system playback audio device for listening recording message.
	Play	Selected message and click this button to play it.
	Stop	While user is recording or playback greeting messages click this button can stop it
	Delete	Selected message and click this button to delete it.
	Open Folder	User can click this button for saving message as other files

∗ 8.3 Recording Function is only for Skype to PSTN, PSTN to Skype and Skype to Skype.

8.3 Voice Mail Messages



Voice Mail Settings		
1	Skype User	Selected different Skype account for recording message quick search.
2	Messages Sorting	User can pull down to select caller for messages sorting in order to quick search
	Update	Refresh all of new messages and update latest message to information window.
	Voice mail Messages Information	This window is show up caller information, record date/time and record length of each message. Users can directly moving cursor to each message for play or delete. Caller information N is indicated **NEW** voice mail messages from Skype or PSTN call..
3	Playback Device	User can through this function to select system playback audio device for listening voice mail message.
	Play	Selected message and click this button to play it.
	Stop	While playback messages click this button can stop it.
	Delete	Selected message and click this button to delete it.
	Dialing	While user moving cursor to message and selected it, click this button can directly dialing call to the messenger(caller)
	Open Folder	User can click this button for saving message as other files.

∗ "Dialing function " of ❸ is only for Skype call out dialing

9. APPLICATION GUI FUNCTION DESCRIPTION

9.1 Making PSTN Phone Calls

Step1. Pick up the handset at standby mode.

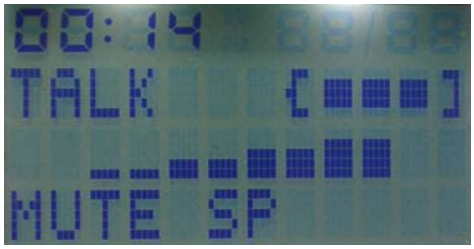
Step2. Press key or "SP" soft key.

Press key →

Press "SP" soft key →

Step3. Press 0~9 Digits keys for telephone numbers.

Step4. Press key to adjust handset speaker volume.



Step5. You can press "SP" or "HS" soft key switch the voice output or loud speaker.

Step6. Press key to stop the PSTN call.

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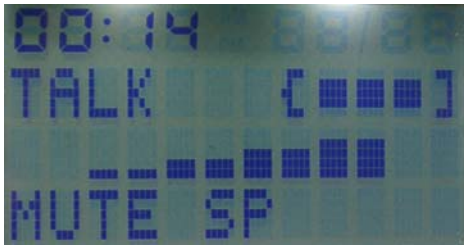
9.2 Answer PSTN Phone Calls

Step1. **When a incoming call ring.**
The handset LCD will show "INCOME CALL"

Step2. **Press key or "SP" soft key to answer the PSTN call.**

Step3. **Press key to adjust handset speaker volume.**



Step4. **You can press "SP" or "HS" soft key switch the voice output or loud speaker.**

Step5. **Press key to stop the PSTN call.**

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9.3 Making Skype Phone Calls

Step1. Pick up the handset at standby mode.

Step2. Press **key to enter Skype contact list menu.**

Step3. Press **key to select on line Skype name list.**

Step4. Press **key after confirm the online Skype name on the LCD to connect the person who you like to talk.**

Step5. Press **key to adjust handset speaker volume.**

Step6. Press **key to stop the PSTN call.**

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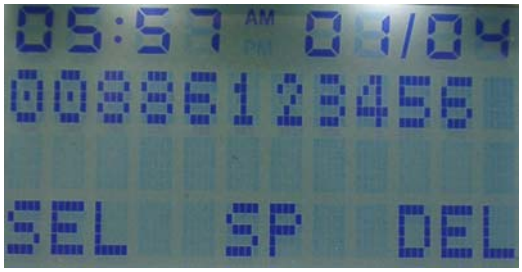
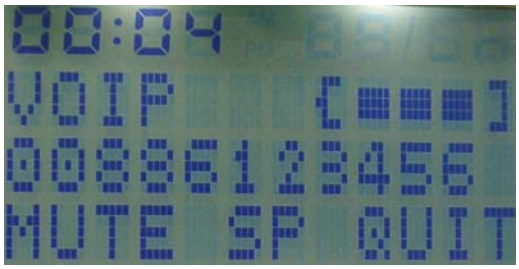
9.4 Making Skype out Phone Calls

Step1. **Pick up the handset at standby mode.**

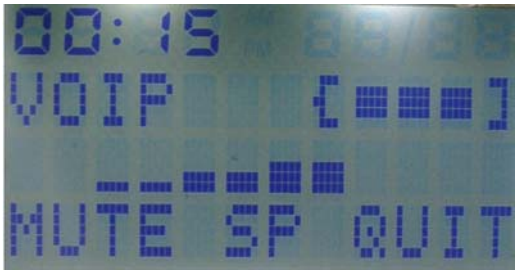
Step2. **Press 00 then country code and area code then phone number that you want to dial. For example dial numbers " 008862123456 "**



Step3. **Press** **key to connect the Skype out phone call**



Step4. **Press** **key to adjust handset speaker volume**



Step5. **You can press "SP" or "HS" soft key switch the voice output or loud speaker.**

Step6. **Press** **key to stop the Skype call.**

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9.5 Redial for PSTN or Skype Phone Calls

Step1. Pick up the handset at standby mode.

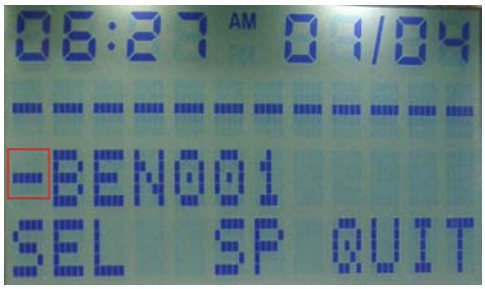
Step2. Press key to enter redial phone book list

Step3. Press key to change redial list.

Step4. The first indication of each list show " — " for Skype redial list.

If first indication show " ▶ " for PSTN redial list.

PSTN Redial



Skype Redial

Step5. Press key or " SP " soft key to make PSTN call or

Press key to make the Skype phone call.

Step6. Press key , handset will return to standby mode.

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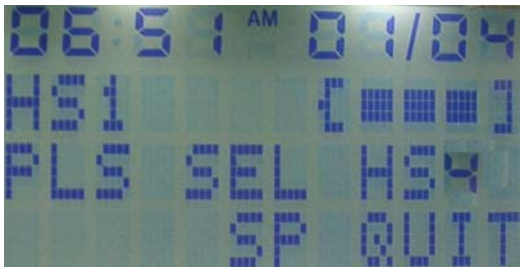
9.6 Handset to Handset Intercom

Step1. Press key to enter Intercom mode.

Step2. LCD will show " PLS SELECT HS# "

Step3. User may press Handset number for handset to handset intercom operation. For example " 4", it means intercom with handset 4.



Step4. Press key, to quit from intercom and handset will return to standby mode.

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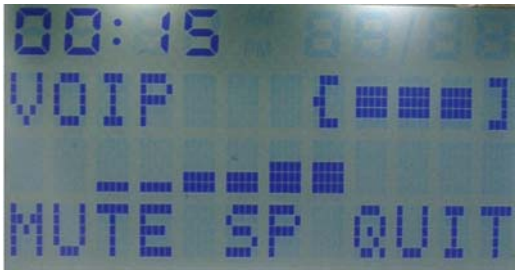
9.7 USB Phone Mode

Step1. **User may use this mode to be a wireless headset and Mic.**
It can used for other application software in PC.
They are MSN, Yahoo Messenger, Google talk, QQ or software type SIP phone … ect.

Step2. **Press**

key then press digit " 7 " to enter to USB Audio mode.

Step3. **Press**
key to adjust handset speaker volume.



Step4. **This mode will be quit if incoming call from PSTN**

or user press **key.**

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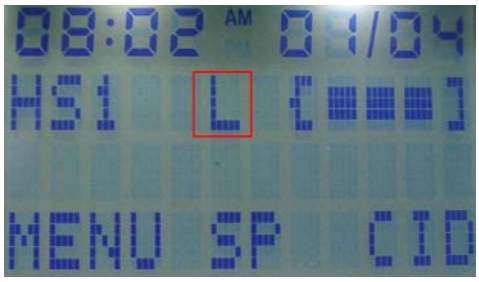
9.8 Put a PSTN Phone call on HOLD

Step1. During PSTN phone call if user want to hold the PSTN line,

just simply press " HOLD " key .



Step2. User may press key return back to handset standby mode.

Step3. If user like to get PSTN phone call back,

just simply press or " HS " soft key.

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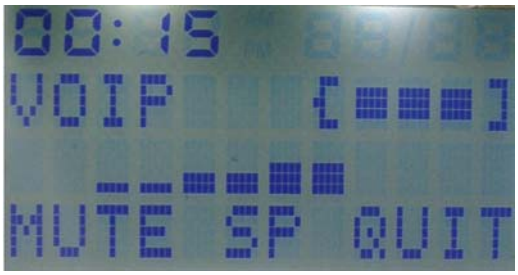
9.9 Put a Skype Phone call on HOLD

Step1. During Skype phone call if user want to hold the Skype call, just simply press " HOLD " key .



Step2. User may press key return back to handset standby mode.

Step3. If user like to get Skype call back, just simply press key.

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9.10 Join to PSTN conference phone Call

Step1. **CT-101 provide PSTN conference if user have more than one handset.**

Step2. **During one of the handset in PSTN call, the other handset just press key then both handset will possible join to PSTN conference call. The LCD on both handsets will show " CONF ".**

Step3. **To quit from the PSTN conference mode,**

just simply press key on the handset.

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9.11 PSTN Call Transfer to the other Handset

Step1. **If user want to transfer a PSTN call to another handset,**

press " HOLD " key

first then " PLS SELECT HS# " will be showed on the LCD.

Step2. **User just press the target handset number from he digit key on currently handset.**

Step3. **If the target handset does not response to this transfer call, it will be bounce back to original handset after 30 seconds.**

Step4. **If original handset doesn't answer to the bounce back call within 30 seconds, the PSTN call will be terminated.**

∗ Please refer Chapter 10 at page30 to enable this function.

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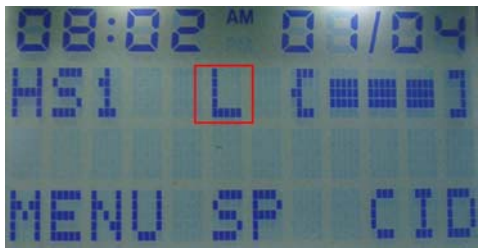
9.12 Make PSTN and Skype Conference Call

Step1. **If the handset is talking with PSTN and Skype separately, user may possible to make PSTN and Skype with handset in conference call together.**

Step2.

Hold a PSTN or Skype call first.

(Hold a PSTN) 

(Hold a Skype)

Step3. **If put PSTN on hold**

then Press

key to get Skype call on line first and press
key to get PSTN online.

OR

Step4. **If put Skype on hold**

then Press
key to get PSTN on line first and press

key to get Skype online.

∗ Please refer Chapter 10 at page30 to enable this function.

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10. Handset Setting

10.1 Handset Registration and Deregistration Mode

Note: 1. Please don't change this registration default setting, when first use.
It already registered complete since factory produced.

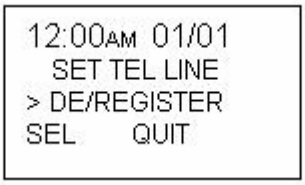
2. This function only for one more Handsets Communication setting or lose the "Registration" data setting recall.

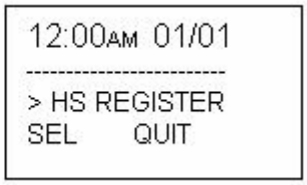
- Registration mode

  BASE unit : Press the **Page** key on the Base for 4 secs. The LED on the Base will be ON.

  Handset unit : Press **SEL** Key to enter **HS Register** mode.

  Wait until a long beep and the display shows the Handset number. The registration will be then complete.





Deregistration mode (Local de-registration)

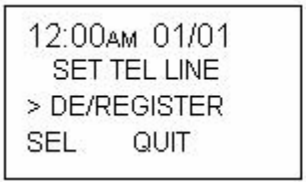
- Enter the **MENU** and then the **DE/REGISTER** submenu press **SEL** Key .

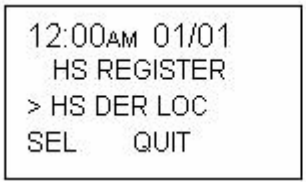
  Then enter **HS DER LOC** press **SEL** Key.

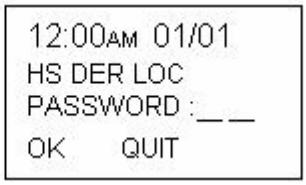
  Enter Password – **88**.

  Press **OK** key to enter Deregistration mode.

  A beep sounds and the registration memory will be erased on the Handset.







Deregistration mode (de-registration all of Handsets from the Base)

- BASE unit : Press the **Page** key on the Base for 10 secs until the LED blinking. Then release the key, all of Handsets will be de-registered.

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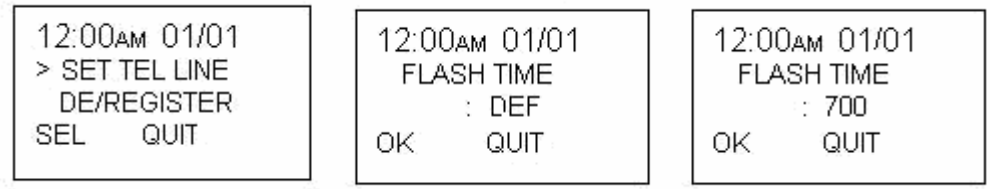
10.2 Handset Dial Mode, Flash Time and Pause Time Setting

Setting the Dial Mode

- . Enter the **MENU** and press ▲ or ▼ key select **SET TEL LIN** submenu press **SEL** Key.
  Select **DIAL MODE** to enter Dial mode setting mode.
  Press ▲ or ▼ key to change the select.
  Press **OK** to confirm and press **QUIT** to standby mode. .

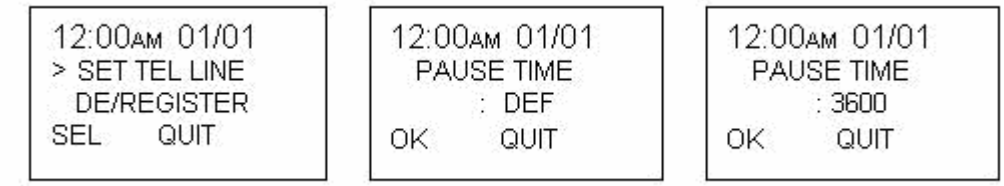
Setting the Flash time

- Enter the **MENU** and press ▲ or ▼ key select **SET TEL LIN** submenu press **SEL** Key.
  Select **FLASH TIME** to enter flash time setting mode.
  Press ▲ or ▼ key to change the select. The default is 600 ms.
  Press **OK** to confirm and press **QUIT** to standby mode..



Setting the Pause time

- Enter the **MENU** and press ▲ or ▼ key select **SET TEL LIN** submenu press **SEL** Key .
  Select **PAUSE TIME** to enter pause time setting mode.
  Press ▲ or ▼ key to change the select. The default is 1 second.
  Press **OK** to confirm and press **QUIT** to standby mode..



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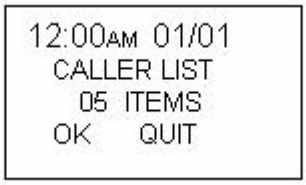
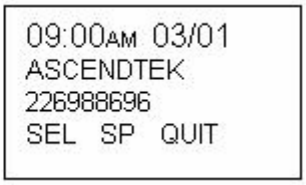
10.3 Handset Caller ID setting

Viewing the Caller List

To check who has called, follow the steps below. Make sure the handset is not being used.

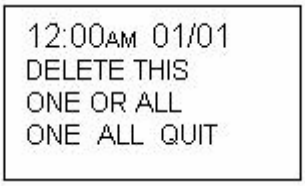
- When the phone is in standby mode, press **CID** key to enter the Caller list.
  The screen shows the number of CID messages and press **OK** to confirm.
  To scroll between callers, press ▲ or ▼ key press **SEL** Key.
  To exit the list, press **QUIT** key.

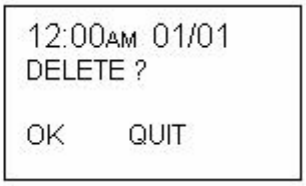




Delete a Caller ID message or All Caller ID messages

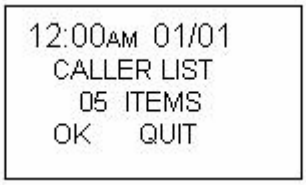
- When the phone is in standby mode, press **CID** key to enter the Caller list and press **OK**.
  To view the Caller ID message to be deleted by ▲ or ▼ key and press **SEL** Key.
  Press **DEL** key, "DELETE THIS ONE OR ALL" appears.
  Then press **ONE** key for delete current message. Press **ALL** key to delete all messages.
  "DELETE ?" appears, press **OK** to confirm and press **QUIT** to standby mode.

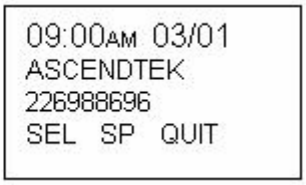




Calling back from the Caller list

- When the phone is in standby mode, press **CID** key to enter the Caller list press **OK** to confirm.
  Scroll to the desired caller by ▲ or ▼ key.
  Press **Talk** or **SP** key.





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Storing Caller ID messages in the Phonebook

- Messages shown in the Caller list can be stored in the phonebook. The phone number and name of party on the Caller list can be stored in memory.

- When the phone is in standby mode, press **CID** key to enter the Caller list press **OK** to confirm. Scroll to the desired caller by ▲ or ▼ key then press "**SEL**".
  Press **EDIT** key to enter Phonebook setting.
  Press **OK** to save it to the phonebook and press **QUIT** to standby mode.

12:00AM 01/01 HS1 [■■■] MENU SP CID	12:00AM 01/01 CALLER LIST 05 ITEMS OK QUIT	12:00AM 01/01 JOHN SMITH 12345678 EDIT DEL	12:00AM 01/01 ASCENDTEK 226988696 OK DEL QUIT

10.4 Handset Date and Time Setting

- Enter the **MENU** and press ▲ or ▼ key select **DATE/TIME** submenu press **SEL** Key.
  Press ▲ or ▼ key select **DATE or TIME** and press Digit Key to confirm your real time.
  Press **OK** to confirm and press **QUIT** to standby mode.

09:00AM 01/18 HS1 [■■■] MENU SP CID	09:00AM 01/18 DE/REGISTER > DATE/TIME MENU SP CID	09:00AM 01/18 DATE: 01 – 18 TIME: 09 – 00 OK QUIT

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11. QUICK START

Step1. Download the Skype software from www.skype.com and apply for an account if you do not have an account.

Step2. Install and launch Skype.

Step3. Plug one side of the USB Cable into the USB port of your PC and Plug the other side into the CT-101 station.

→

Step4. Plug PSTN line into "LINE JACK" and plug DC adapter.

→

Step5. Open the Handset back cover and set up the battery.

→

→

Step6. Plug your cordless phone into CT-101 station to charge the battery.

Step6. The "POWER" light will be on RED

Step7. Inset the CT-101 CD in CD-ROM and install driver software.

Step8. Enjoy to make/answer Skype calls by your regular phone.

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12. FAQ

1. How to use Speed-Dial on CT-101?

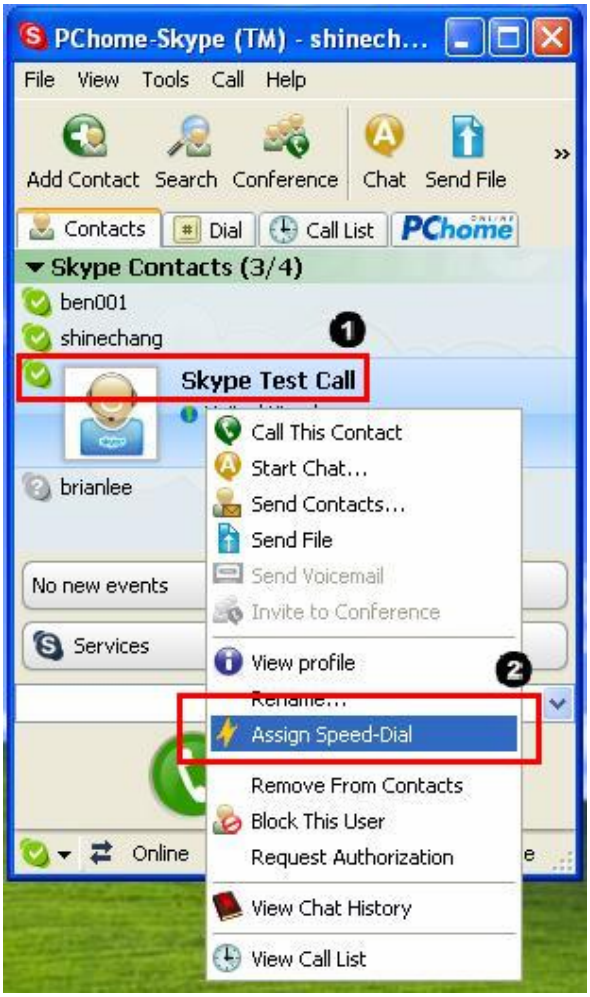
ANS:

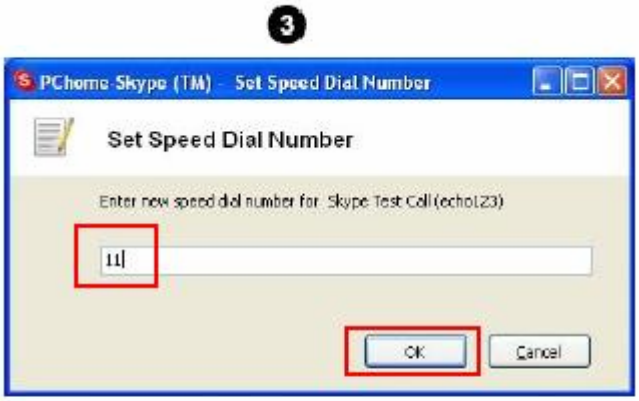
Step1. Pop-up the Skype icon.

Step2. Select Skype contact person name list.

Step3. Click left key to assign Speed-dial number and press OK.

Step4. Dial the assigned number and press **key start the call.**





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FCC Caution

1. The 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.

(2)This device must accept any interference received, including interference that may cause undesired operation.

2. **C**hanges or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

3. The antenna(s) used for the base-unit must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. "