

USB Speaker Phone

User's Manual

Safety Instructions

Always read the safety instructions carefully

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
 - The equipment has been exposed to moisture.
 - The equipment has been dropped and damaged.
 - The equipment has obvious sign of breakage.
 - The equipment has not been working well or you cannot get it work according to User's Manual.

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1. Introduction

This USB speaker phone provides you more convenience to make free conference call over the Internet from PC to PC as easy as using normal telephones. It distinguishes from others with a dedicated echo-cancellation solution to provide superior sound quality. Simply plug the USB speaker phone into the USB port of your PC, download Internet telephony software like Skype®, and you can start making calls. The phone is fully compatible with Skype and can also be used as audio device with Yahoo Messenger, MSN Messenger, MS NetMeeting, net2phone, babble and etc for voice communication. It's designed similar to a mobile phone with quick dial and volume control buttons.

Package Contents

- USB Speaker Phone x1
- USB Cable x1
- Software Utility CD x1
- Quick Installation Guide x1
- Power Adapter (Optional) x1

Features

- Handsfree type with speaker-out support, dedicated to conference call in office
- Mute function for private needs
- Built-in high-performance microphone and mono speaker
- With 3.5mm earphone jack to be compliant with your stereo earphone
- Echo-cancellation function provides superior sound quality
- As a speaker to broadcast music from PC
- Works with VoIP solution and instant message software, such as Skype, Yahoo Messenger, MSN Messenger, MS NetMeeting and etc
- LCD backlight turns on for incoming call notification
- LCD to display caller ID, contact list and calling list
- Supports bus-powered and self-powered mode

- Supports multiple languages
- Supports hot-key functions to operate Skype software as easy as dialing a normal telephone
- Compliant with USB 1.1 specification (transfer rate to 12Mbps)

System Requirements

- Computer with an available USB 1.1 port or higher
- Windows® 98SE/ME*/2000/XP (All use Windows built-in audio driver)
- To use Skype with the USB speaker phone, your computer must meet the following minimum system requirements**:
 - PC running Windows 2000 or XP.
 - 400 MHz processor
 - 128 MB RAM
 - 15 MB free disk space on your hard drive
 - Internet Connection
 - With provided utility installed

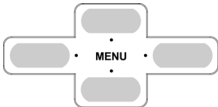
* Skype doesn't support Windows 98SE/ME. Under these systems, the USB speaker phone only works as an audio input/output device and can be used with an instant communication software, e.g., MSN Messenger, Yahoo Messenger and etc.

** The requirements are subject to Skype software. For the latest requirements, please visit the Skype website.

Exterior Overview

Keypads and Control Buttons

Icon	Function	Description
	Skype on/Tab Switch	Press briefly to open the Skype window and switch between tabs. Long press to close the Skype window.
	Dial/Answer/Redial	Dials, answers or redials a call.
	Hang up/ Reject/Clear	Ends or rejects a call. When dialing via the device keypad: Press briefly to clear a wrong entered number. Long press to clear all the entered numbers at a time.

Icon	Function	Description
0~9, #, *, +	Dial pad.	Dial pad. If Skype is closed, pressing it will open Skype window. Long pressing 0 will enter +. Long pressing # will enable/disable the LCD always-on state.
	LED Always-On	Long press to enable LED always-on state. Long press again to resume normal LED state (stays on for 28 seconds and then turn off).
Vol + / Vol -	Volume Up/Down	Increases/decreases the speaker/earphone volume.
	Scroll Up/Down (Up/Down)	Moves up and down in Skype contact list and calling list. (In LCD, long pressing allows to quickly scroll through the list.)
	Outgoing/Incoming Call List (Right)	Press briefly and then release to display and switch outgoing / incoming call list.
	Missed Call List (Left)	Press briefly and then release to display missed call list.
	Contact List	Displays contact list on LCD.
	Mute	Mutes the microphone. Pressing it again turns mute off.

* The keys shown above are for reference only. Actual color and appearance depends on your model.

Connectors

Connector	Description
USB Connector 	USB 1.1 compliant B type female connector
EAR 	3.5mm jack for earphone.
MIC 	3.5mm jack for microphone.
DC IN	Power connector.

2. Hardware Installation

Connect one end of the provided USB cable to the USB speaker phone and the other end to your computer's USB port. When connected to your computer, Windows will automatically detect the new device. Complete the driver installation according to your Windows operation system.

For Windows XP/2000

Under Windows XP/2000, you don't need to install the driver. The system will automatically install Windows built-in audio driver. After that, you are ready to use the USB speaker phone.

For Windows Me

When the **Add New Hardware Wizard** screen pops up, select **Automatic search for a better driver** and then click **Finish** to complete the Windows built-in driver installation.

For Windows 98SE

Upon detecting the new device, take these steps:

1. When the **Add New Hardware Wizard** screen pops up, click **Next**.
2. Select **Search for the best driver for your device**. Click **Next**.
3. Clear all the selections and click **Next**.



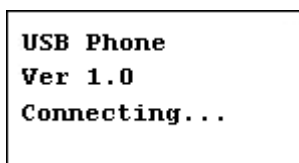
4. Select **The updated driver (Recommended)** and click **Next**.



5. Follow the on-screen prompts to proceed. As the system will detect three device components, you need to repeat the above steps three times.

During the installation, Windows may prompt you for the Windows 98SE CD-ROM. In this case, insert the Windows 98SE Setup disc and click **OK**.

In Windows 98 and ME, the LCD always displays **Connecting...** as shown below when the USB speaker phone is connected. Now it's ready to be used as audio in/out device.



* Actual version number depends on your USB speaker phone.

Notes on Power Connection

As the USB speaker phone supports bus-power mode, in most cases it should function properly by receiving power over the USB bus. If the USB port has insufficient power to start the device, such as when the USB speaker phone is connected to a USB hub that has connected to multiple devices, the LCD will not light upon the USB connection. In such a case, you can use the supplied power adapter or purchase a compliant power adapter to connect to the **DC IN** jack on the USB speaker phone.

3. Application Installation

If you are using the USB speaker phone simply as an audio input/output device in combination with an instant communication software, e.g., NetMeeting, MSN Messenger or Yahoo Messenger), you don't need to install any other software. Please ignore this chapter.

To use Skype with the USB speaker phone in Windows 2000/XP, please follow the instructions in this chapter to complete the installation.

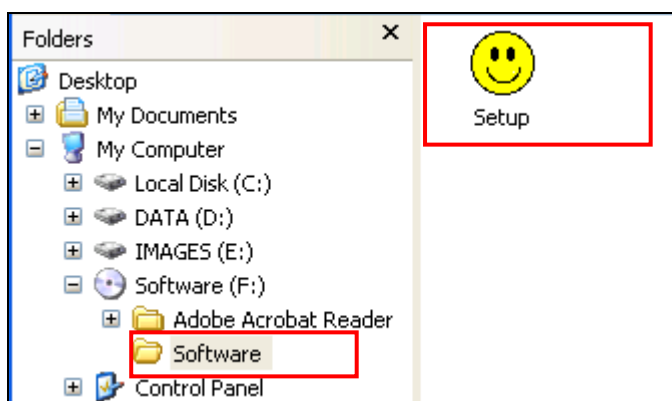
Installing Skype Software

1. If Skype is not yet installed on your computer, please download Skype installation file from **www.skype.com**.
2. Double-click the installation file you've downloaded and then follow the on-screen prompts to complete the installation.

Installing the USB Speaker Phone Utility

To enable your USB speaker phone to communicate with Skype, you have to install the provided utility to allow the USB speaker phone to access Skype's functionality.

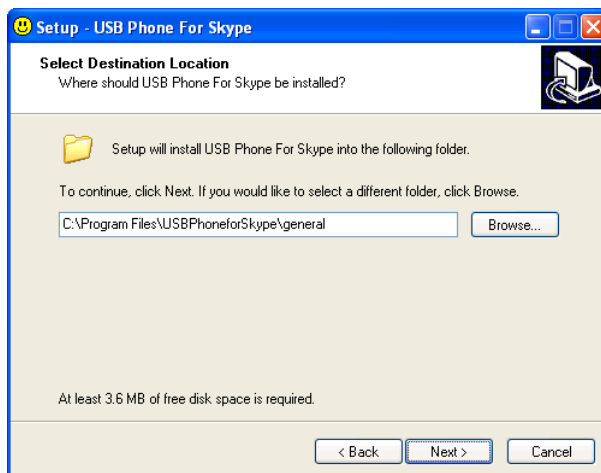
1. Insert the provided Software Utility CD into your CD-ROM drive. The setup program will start automatically. If not, locate and double-click the **Setup.exe** file in the **Software** folder to launch the setup program.



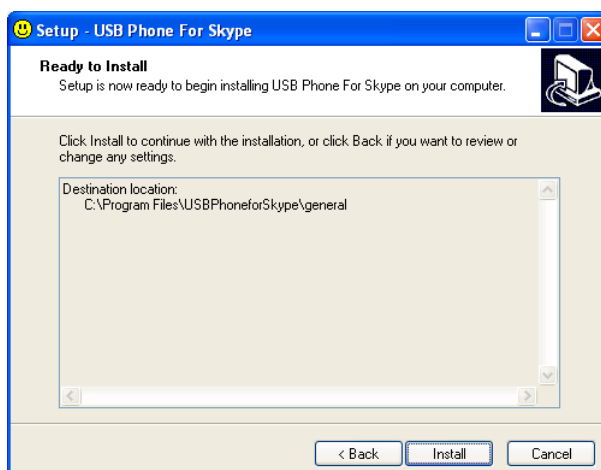
2. When the welcome screen appears, click **Next**.



3. Select to install the program in default directory or click **Change** to specify another directory. Then click **Next**.



4. Click **Install** to begin the installation.

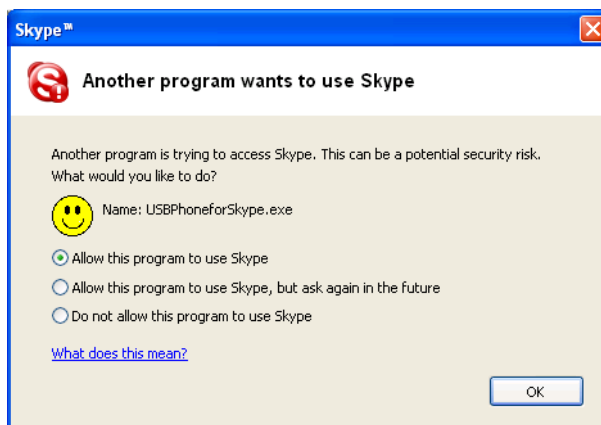


- Click **Finish** to complete the installation.



- If Skype is launched, the following screen will appear, select **Allow this program to use Skype** and click **OK**.

Note: You will not see this screen if Skype is not launched. You can configure it later in Skype window. Refer to “Managing Utility Access to Skype” on page 8 for details.



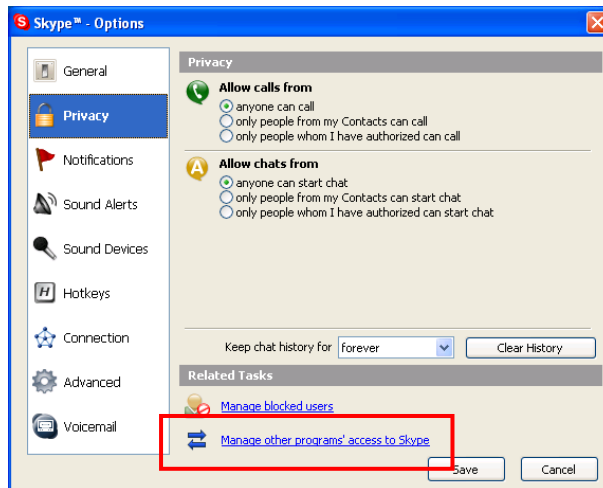
- After the installation, the utility starts automatically with its icon located in the system tray. It also starts automatically at system startup.



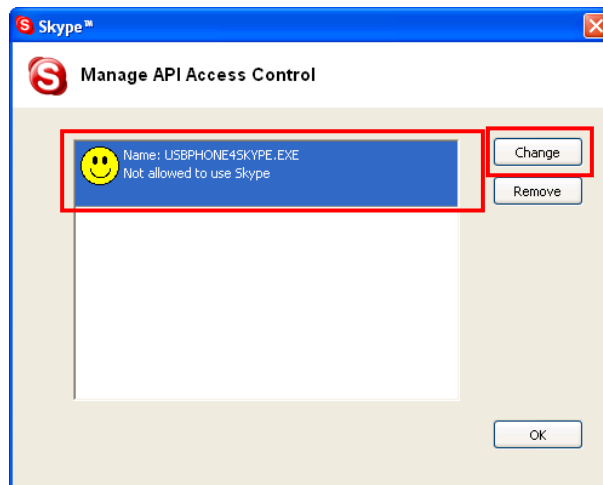
Managing Utility Access to Skype

You should always let the USB speaker phone utility use Skype so that you can use the USB speaker phone. If you accidentally select the **Do not allow this program to use Skype** option, open Skype window and take these steps:

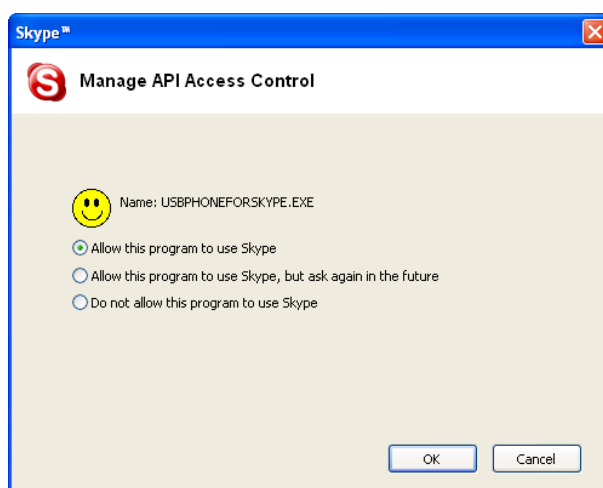
- Click **Tools > Options > Privacy > Manage other program's access to Skype**.



2. Select **USBPHONE4SKYPE.EXE** and click **Change**.



3. Re-select a proper option to let the provided program access Skype.



4. Re-start the utility to active your changes. Right-click the utility systray icon and choose **Exit**. Then click **Start > USB Phone for Skype** to restart the utility.

Verifying Skype Audio Device

When the USB speaker phone is plugged, it should be automatically set as Skype's default audio devices.

To verify the audio setting in Skype, click **Tools > Options > Sound Devices**. Make sure the **Audio In** (microphone) and **Audio Out** (speaker) and are correctly configured to use the USB speaker phone.



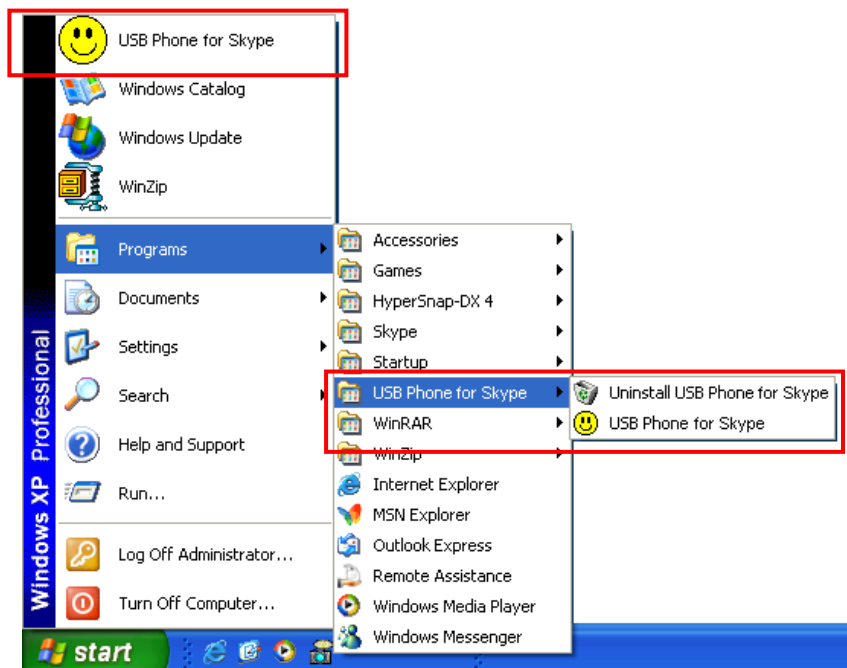
4. Using Utility Control Panel

The USB phone utility comes with a control panel allowing users to adjust USB speaker phone settings as required. This chapter describes the functions available through the utility control panel. Since the default settings satisfy most users' needs, you can just proceed to next chapter to start using the USB speaker phone.

Accessing the Utility

After the utility installation, a program group is added to Windows programs menu. Using the programs menu, you can perform these tasks:

- If the utility is closed, you can restart it by selecting **Start > USB Phone for Skype**.
- Uninstall the utility by selecting **Start > Programs > USB Phone for Skype > Uninstall USB Phone for Skype**.



After the installation, the utility also starts automatically with its icon located in the system tray. It also starts automatically at system startup.



Viewing USB Speaker Phone Status

Place the cursor over the utility systray icon and you can view the status of your USB speaker phone.

- **USB Phone Online:** Your USB speaker phone is connected.

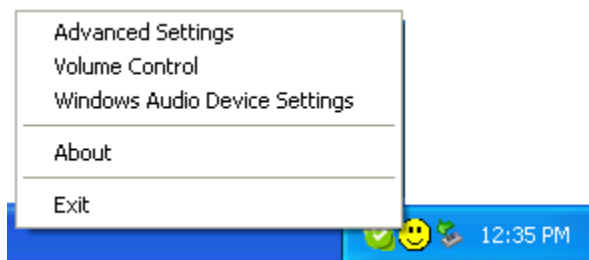


- **USB Phone Offline:** Your USB speaker phone is not connected.

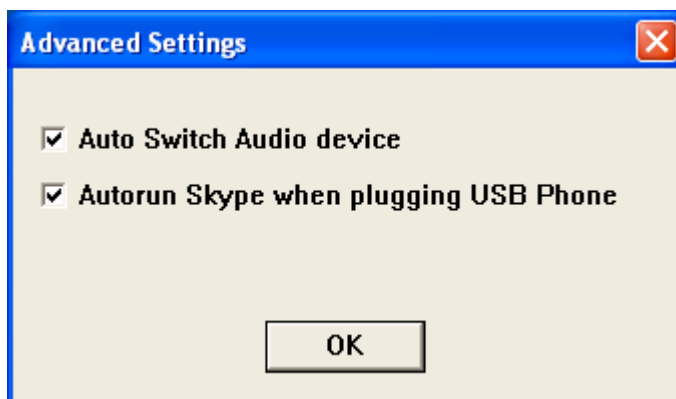


Using Utility Control Panel

Right-clicking the utility icon in the system tray brings out a context menu. The configurations you can make are describes as follows.



Advanced Settings



■ Auto Switch Audio Device

Enabled: When the USB speaker phone is plugged, it will be automatically set as Skype's default audio devices. When unplugged, Skype's audio device automatically switches to Windows default audio device, e.g., your sound card.

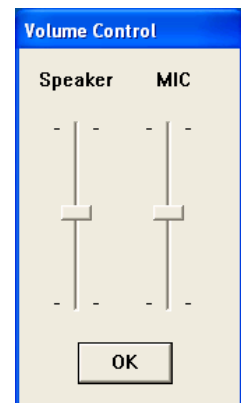
Disabled: This option keeps Skype's audio device settings unchanged, even if your Skype phone is plugged. To let Skype use the USB speaker phone, you need to manually specify your USB speaker phone via **Tools > Options > Sound Devices**.

■ Autorun Skype When Plugging USB Phone

When enabled, if you are not logging in to Skype, plugging the USB speaker phone will launch Skype and automatically log you in.

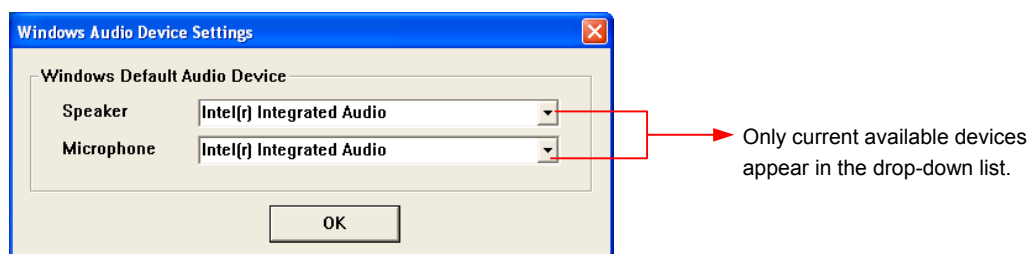
Volume Control

This item allows you to adjust the USB speaker phone's speaker and microphone volume.



Windows Audio Device Settings

This dialogue box controls which audio device is used by Windows. It is a shortcut to Windows audio device settings under Control Panel. The screenshot below indicates a default setting, which allows Windows to still use the sound card for PC music playback when a USB speaker phone is plugged. If you prefer to use your sound card for PC music playback, it's suggested that you keep the defaults.



If USB speaker phone (USB Audio Device) is selected, Windows will use it for music playback/recording. Once the USB speaker phone is unplugged, Windows turns to use current available audio devices, e.g., the sound card, instead.

View Version Information

To view the version information, right-click the systray icon and choose **About**.

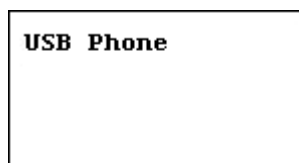
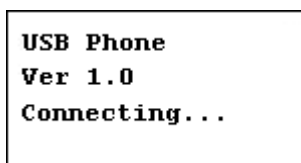
Exit the Utility

To exit the utility, right-click the utility systray icon and choose **Exit**.

5. Using the USB Speaker Phone with Skype

Connecting the USB Speaker Phone

When the USB speaker phone is connected to a powered-on computer, the LCD backlight will turn on and the device will start to connect to the installed utility. When the connection is established, **USB Phone** is displayed indicating the device is ready for use.

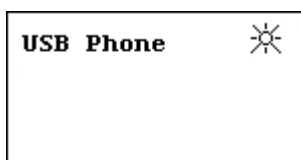


* Actual version depends on your USB speaker phone.

Note: If **Connecting...** keeps showing on the display in Windows XP/2000, the device might have a problem communicating with Skype. Refer to the "Troubleshooting" section to solve this problem.

Enabling LCD Always-On State

By default, the LCD backlight will stay on for 28 seconds and then turn off if no operation is performed. To set the LCD to always-on state, long press the # button and then release. A light indicator will be displayed on the LCD. To disable the always-on state, just long press the # button again.

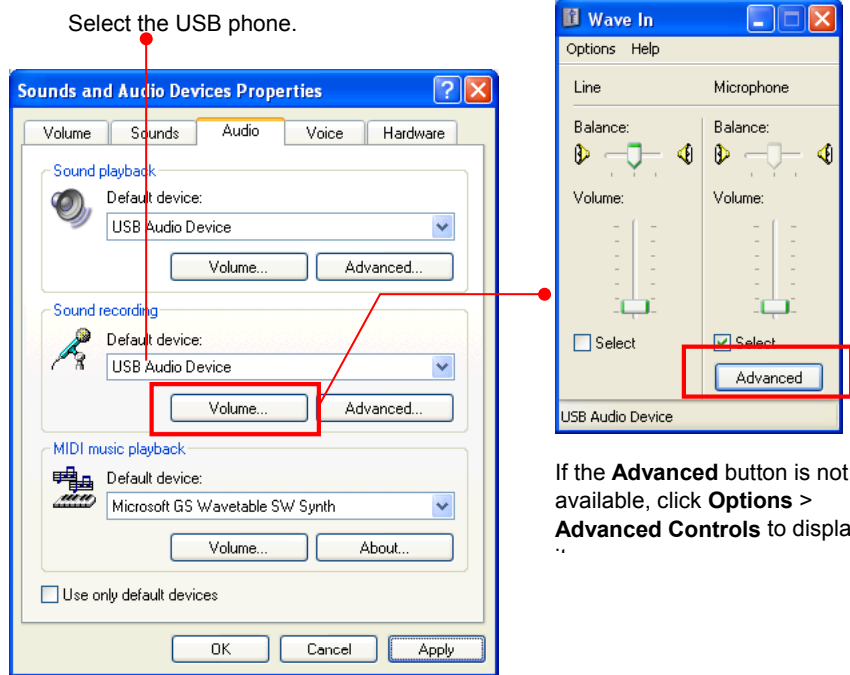


Enabling Automatic Gain Control

It's suggested that you enable the Automatic Gain Control (AGC) function to let the microphone automatically adjusts its audio gain. AGC will increase the gain when

the microphone is far away from the user, which is particularly useful when making a conference call. AGC also decreases the gain when the microphone is close to the user. To enable AGC:

1. Go to **Control Panel > Sounds and Audio Devices** (or **Sounds and Multimedia**) > **Audio**.
2. In the **Sound recording** section, click the **Volume** and then the **Advanced** button.



If the **Advanced** button is not available, click **Options > Advanced Controls** to display ..

3. Enable the **AGC** option.



Calling a Skype User

Prerequisites

To call a Skype user, you have to launch Skype and log in to Skype. And you should have added desired Skype user(s) to your contact list. Then you can use the following methods to call a Skype user.

Loading the Contact List on LCD Panel

1. Press the **Contact List** key to load the Skype contact list.

Only one contact is displayed at a time. The top-right icon indicates the online status of the contact.  means online while  means offline.

Note: Letter with diacritical marks, such as German umlaut letters (Ä, ä, Ö, ö, Ü, ü), is not displayable and will be replaced by a blank instead on the display.

2. Scroll with **Scroll Up / Down** to reach the desired contact. You can keep pressing **Scroll Up / Down** to quickly scroll through the list. (To exit the contact list, press the **Contact List** key again or press the  key.
3. To call current contact, just press the  key. While establishing the communication, the screen is as below.



4. When the call is answered,  appears on the screen. You can start the communication now. To end the call, press .



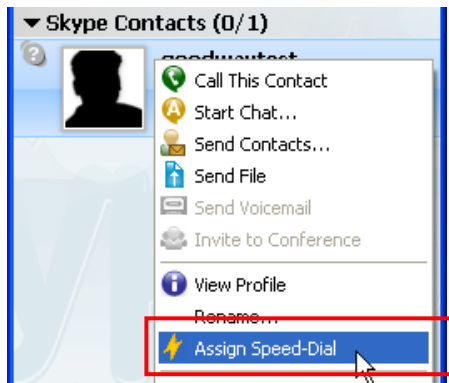
Using the Contact List on Skype Window

1. Press the **Skype On** key to open the Skype window (if not open) and switch to the **Contacts** tab.

2. Select your target contact. You can use mouse or the **Scroll Up / Down** key on the USB speaker phone to scroll through the contact list.
3. Press the  key to call the desired contact. To end the call, press .

Speed Dialing

1. In Skype window, go to the **Contacts** tab and select your desired contact. Right-click the contact and select **Assign Speed-Dial**.



2. Assign a number as a speed dial number using your keyboard.



3. Press the speed dial number using the USB speaker phone.

Note: In case you want to clear the number you entered, press the  key.

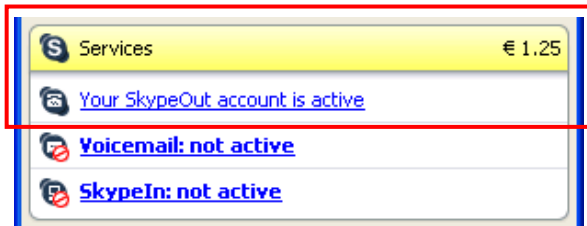
4. Press the  key to make the call.

Using SkypeOut to Call Regular Phones

SkypeOut allows you to place calls to regular telephones or mobile phones. This feature allows you to call from Skype to friends who are not using computers but still use regular phones.

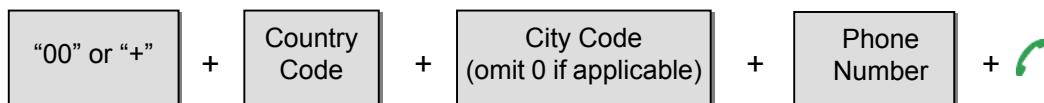
To use SkypeOut, you should buy SkypeOut credits first. To do this, click **Tools > Go to My Account Page**. Sign in and find the link to SkypeOut credits page. Then follow the instructions to purchase the credits.

After you have purchased SkypeOut credits, log out from the Skype web page. Open your Skype and check the **Services** section for verification that your SkypeOut account has been activated.



Making a SkypeOut Call

To make a SkypeOut call, you must enter the number in the following way (whether for domestic or international calls):



Example 1: Placing a USA domestic call 222-5551234.

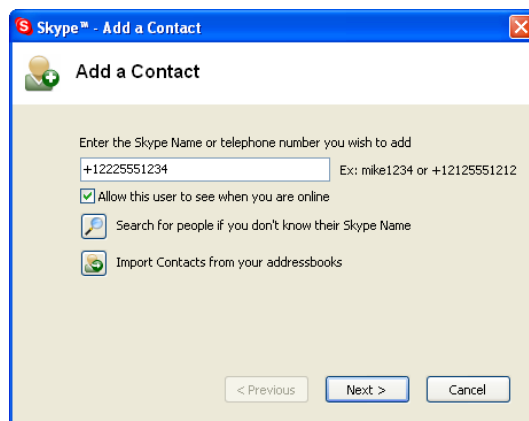
00-1-222-5551234 or +1-222-5551234

Example 2: Calling China (010-12345678) from USA.

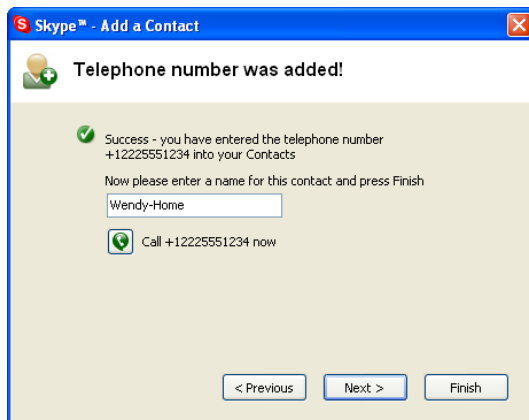
00-86-10-12345678 or +86-10-12345678 (*Omit the preceding 0 from the local code)

Saving a SkypeOut Contact

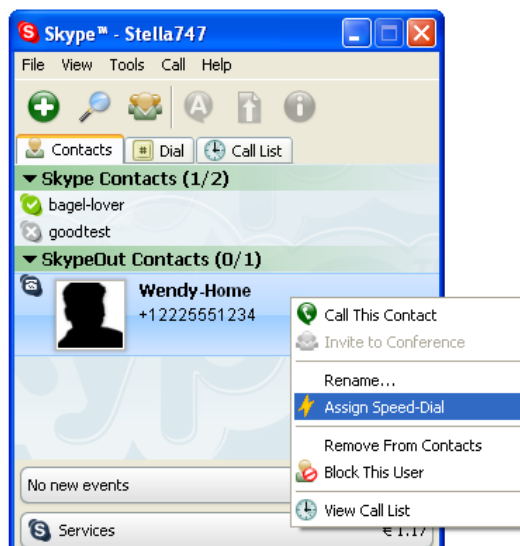
1. To save a SkypeOut number, click **Tools > Add a Contact**.
2. Enter the number you would like to save and click **Next**. Remember to use "+" or "00" before the actual number to make it SkypeOut compatible.



3. Type in a name or description for this phone number and click **Finish**.



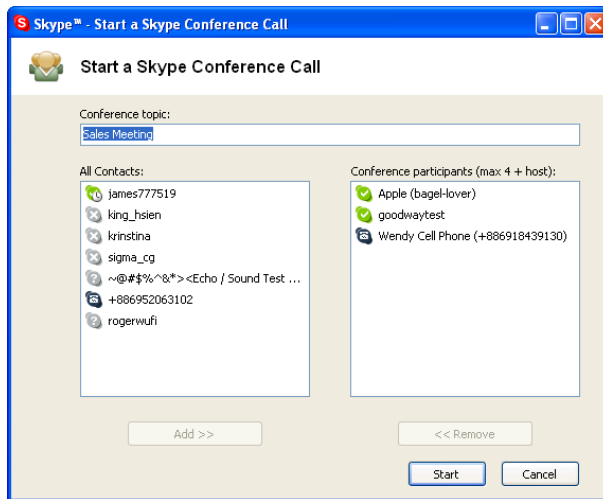
Now you should be able to see a new entry in your **SkypeOut Contacts** list. You can also assign a speed-dial number to the contact.



Conference Call

You can dial several people all at once to start a conference call. The participants can be either Skype or Skypeout users. Up to 5 people can attend the conference call (but actual number of the participants depends on Skype software version). To start a conference call, take these steps:

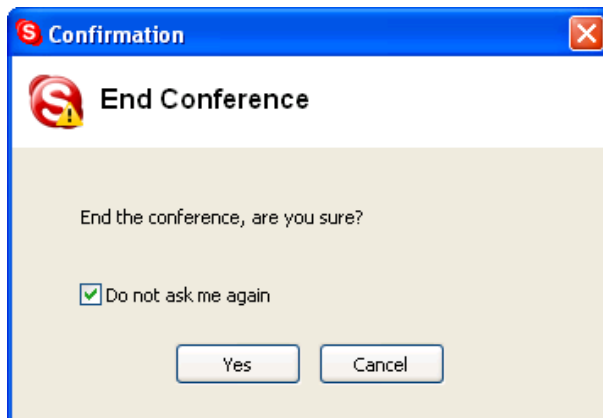
1. In Skype toolbar, select **Tools > Create conference**.
2. In the **Conference Topic** field, you can type in a topic or just leave it blank. Then select the participants from your contact list and click **Add** to add them. Then click **Start**.



3. Skype will dial to the participants. When they answer the call, you can hear them from the USB speaker phone.

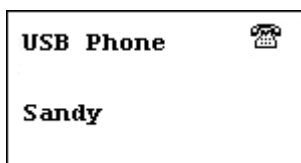
4. To end the conference call, press the  key.

Note that if you're starting a conference call for the first time, when you press the  key to terminate the call, a confirmation dialog will appear and need your confirmation to end the call, so you need to press **Yes** to end the call. Please remember to tick the **Do not ask me again** check box so that next time you can directly end a conference call by pressing the  key.

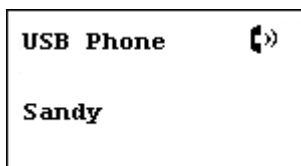


Answering a Call

On an incoming call, the USB speaker phone will be ringing and the LCD backlight will flash with the caller ID displayed (if available).



Press the  key to answer the call. To end a call, press the  key.

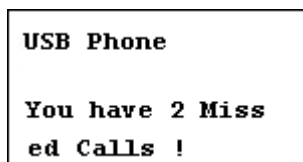


Ending / Rejecting a Call

To end or reject a call, press the  key.

Missed Calls

In case you have missed calls, the LCD will display a message of missed calls. To exit the notification screen, press the  key.



To view details of missed calls, press the **Missed Calls** key to load the missed calls (). To clear this message, you should clear the missed calls records via Skype. See “Clearing Calling List” on page 23” for details.

Loading Calls List

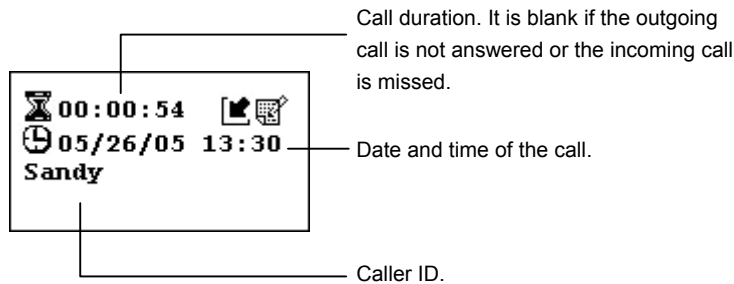
Outgoing/Incoming Calls List

Pressing the **Outgoing/Incoming Calls** key repeatedly allows you to switch between the list of outgoing calls () , incoming calls () , including rejected calls), and main screen. Most recently dialed or received call is displayed first.

Note: Letter with diacritical marks, such as German umlaut letters (Ä, ä, Ö, ö, Ü, ü), is not displayable and will be replaced by a blank instead on the display.



An incoming call record example is as below:



The screen below indicates an empty calling list.

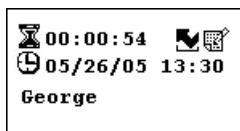


At the calling list screen, you can:

- Use the **Scroll Up / Down** key to scroll through the list. You can keep pressing **Scroll Up / Down** to quickly scroll through the list.
- Press the  key to call the contact being displayed.
- Press the  key to exit the calling list and returns to LCD main screen.

Missed Calls List

Pressing the **Missed Calls** key allows you to load the missed calls list (.



Clearing Calling List

To clear the calling records, open the Skype window and click the **Call List** tab. Select the calling list type (missed, incoming or outgoing calls) you want to delete and click the trashcan icon.

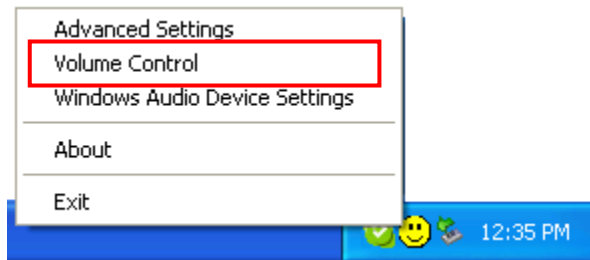
Note: The USB speaker phone's calling list corresponds to that on the Skype window. If you clear the list entries on the Skype window, it will be also cleared from the USB speaker phone.

Adjusting Speaker Volume

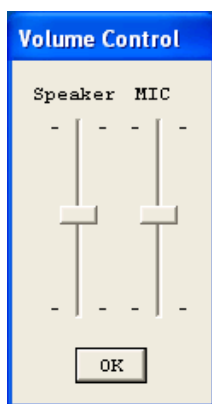
During your conversation, you can press the **Volume Up** or **Volume Down** key to increase or decrease the speaker volume.

To specifically adjust the volume:

1. Right-click the utility systray icon and select **Volume Control**.



2. Adjust the speaker volume by moving the slider up or down. You can do this by mouse/keyboard or by pressing the **Volume Up** or **Volume Down** key on the USB speaker phone.



Adjusting Microphone Volume

1. Right-click the utility icon in the system tray and select **Volume Control**.
2. Use the mouse/keyboard to adjust the MIC volume by moving the slider up or down.

Muting

To mute the microphone, press the **Mute** key. When mute is on, a mute icon  is displayed on the screen. To turn mute off, just press the **Mute** key again.



Redialing

If your last call is dialed via Skype calling list

To redial the last called number, just press the  key. If the last dialed contact is offline, no caller ID will be displayed.

Caution: If you have clicked any other item in the Skype window after the last call, or the last call is speed-dial, redial cannot work and the display will stay on the main screen.

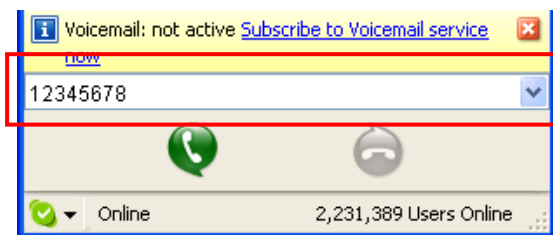


If the last call is dialed via LCD calling list

If the last number is dialed by loading the contact list on LCD, pressing the  key will not make a call. To redial in such situation, press the **Outgoing/Incoming Calls** key to load the last outgoing call and then press the  key.

Clearing the Entered Numbers

To erase the numbers you've just entered, just press the  key. All the numbers will be cleared at a time.



Skype Status and Response Mode

The USB speaker phone's respond mode varies according to your Skype status as described in the table below:

Skype Status	USB speaker phone Ringer	USB speaker phone LCD Backlight
Offline	No Ring	No
Online	Ring	Flash
Skype Me	Ring	Flash
Away	Ring	Flash
Not Available	Ring	Flash
Do Not Disturb	No Ring	Flash
Invisible	Ring	Flash

6. Troubleshooting

Sound Devices Problems

Q1. While using Skype or MSN messenger software for voice conversation:

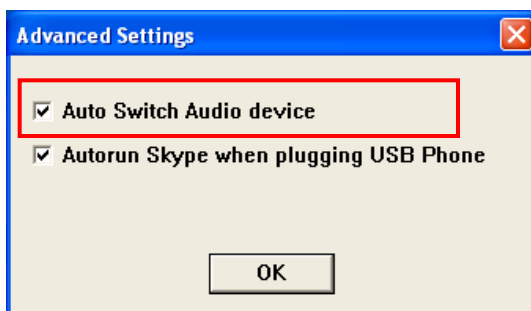
- There is no dial tone after pressing the dial key.
- I cannot hear the other party on my USB speaker phone.
- I hear the other party on my PC's sound card (or another USB speaker) instead of the USB speaker phone.
- The other party cannot hear me.

A1. Make sure your software is configured to use USB speaker phone as the audio in/out device.

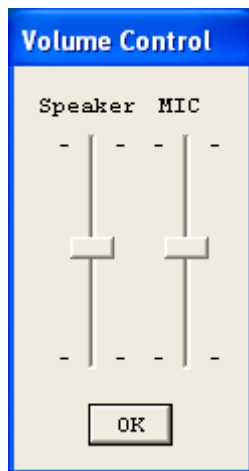
In Skype window, click **Tools > Options > Sound Devices**. Make sure the **Audio In** (microphone) and **Audio Out** (speaker) and are correctly configured to use **USB Audio Device**, i.e., the USB speaker phone.



It's suggested that you enable **Auto Switch Audio Device** in **Advanced Settings** of the utility control panel. This ensures Skype always uses the USB speaker phone whenever it is plugged.



If the USB speaker phone is already selected, verify that the speaker/microphone volume is properly configured by right-clicking the utility systray icon and select **Volume Control**.



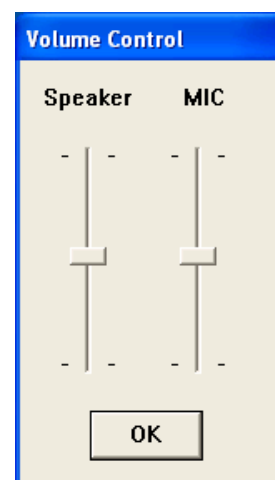
In MSN Messenger

In MSN Messenger window, click **Tools > Audio/Video Tuning Wizard** and proceed as prompted. When the following screen pops up, make sure the microphone and speaker are correctly configured as below:



Q2. When using the USB speaker phone, I didn't press the **Mute** key and the mute icon is not displayed on the LCD either. But the other party cannot hear my voice. (I've verified that the USB speaker phone is set as the microphone device in Skype.)

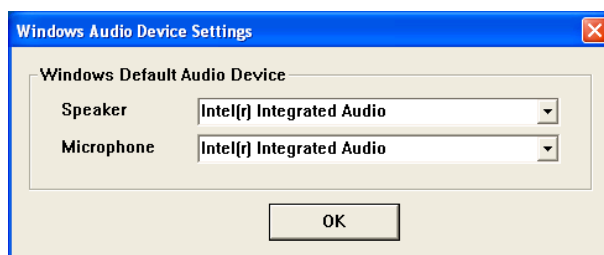
A2. It may be that the USB speaker phone's microphone volume is either mute or set too low. Right-click the utility systray icon and select **Volume Control**. Then make sure the microphone volume is properly set.



Q3. While using the USB speaker phone to make/answer a call in Skype, can I still play music by my PC's sound card or USB speaker?

A3. Yes. Just set your preferred device as the Windows playback device.

1. Right-click the utility systray icon and select **Windows Audio Device Settings**.
2. Select the sound card or USB speaker as the speaker. This ensures Windows to use the specified device for PC music playback.



Utility Problems and Error Messages

Q4. Skype is launched. After I connect the USB speaker phone:

- The LCD keeps displaying **Connecting...** and Skype has no response.
- When I press a key, the LCD turns to show **S/W Disabled** and Skype has no response.
- When I press the keypads, the USB speaker phone responses but Skype doesn't.

A4. Verify the following:

1. Make sure you have installed the provided utility software and allow the utility to use Skype. Refer to the section "Managing Utility Access to Skype" on page 8 for instructions.
2. Make sure the utility is launched. If not, click **Start > USB Phone for Skype** and re-plug the USB speaker phone. When the utility is launched, its icon should appear in the system tray.



3. The phone's LCD should display **USB Phone** now, indicating it's ready for use.

Q5. I got a **Wrong Number** message on the LCD.

A5. It could be that you've dialed an invalid number.

Q6. I got an **Unknown User** message on the LCD when I press the **Contact/Calling List** key.

A6. The message appears due to that the USB speaker phone is still loading the list from Skype. This may occur if you press the **Contact/Calling List** key soon after you login to Skype or plug the USB speaker phone. As the USB speaker phone needs little time to load the data from Skype, wait a moment to let the USB speaker phone finish loading the list before you press the **Contact/Calling List** key to avoid this problem.

Q7. I got a Skype error "Problem with recording Device".

A7. This may occur if you hot unplug the phone while phoning. Avoid hot unplugging while phoning.

Other Problems

Q8. On the LCD, I loaded my target contact a few minutes ago but I didn't make the call. Later, since the LCD stays on that contact with an online indicator, I press the dial key trying to make a call but the call cannot be made.

A8. It could be that the contact has gone offline during the time elapsed. You should return to the main screen and press the **Contact List** key again to refresh the contact list.

Q9. In Skype window, I've changed the sound alert to use a preferred wav file for an incoming call. But when USB speaker phone is ringing on an incoming a call, it still uses the phone's ring tone.

A9. Note that the ring tone is controlled on the device side while sound alerts on Skype side. When receiving a call, both ring tone and sound alert could be heard. The ring tone is heard from the USB speaker phone and is much louder. Your customized sound alert is heard from the phone's speaker.

Q10. I cannot use the USB speaker phone with Skype in Windows 98/ME.

A10. Skype doesn't support Windows 98/ME. To use the USB speaker phone with Skype under Windows, you should be under Windows 2000/XP. For the information on compatible operating system and system requirements, please visit the Skype website.

Q11. No caller ID is displayed when making a call.

A11. If you use the Skype window to click the target contact but the contact is offline, no caller ID will be displayed.

7. Specification

Solution	8 bits DSP Voice Processing Echo-cancellation: up to 45 dB Audio Output Frequency Range: 44.1K Hz Audio Input Sampling Rate: 8K Hz, 8 bits
Interface	USB 1.1 compliant
Connectors	USB B type female connector 3.5mm stereo jack for earphone 3.5mm jack for microphone 5V DC IN jack
Speaker	Size: 41 x 71 mm Response Frequency: 100 Hz~20K Hz Output Impedance: 1W / 8 Ohm Volume: 100dB
Microphone	Sensitivity: -40±2 dB Directivity: Onmidirectional Response Frequency: 50 Hz~16K Hz
Response Frequency	100 Hz~15K Hz
Signal-To-Noise Ratio	More than 60dB
Receiver Output Impedance	2.2K Ohm
Operating Voltage	DC 5V (Bus-Powered / 5V DC jack)
LCD	Resolution: 128x64 pixels Size: 59 x 65.4 mm Backlight: White Multiple languages display
Temperature	Operating: 0~40 °C Storage: -20~60 °C
Humidity (Non-Condensing)	Operating: < 90% Storage: < 95%

*Specifications are subject to change without notice.

8. Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply 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.

CE

This equipment is in compliance with the requirements of the following regulations:
EN 55 022: CLASS B

WEEE Information

For EU (European Union) member users:

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

