

USB400 VoIP Communication Headset

ISTALLATION GUIDE & USER MANUAL.





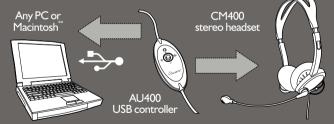


## **USB VolP Communication Headset**

INSTALLATION GLIDE & LISER MANUAL

Thank you for purchasing the Accutone® USB400 VolP Communication Headset. This high-performance headset is designed for professional Voice over IP communication, whether it be Skype® chat or any proprietary softwares. Although the USB400 is tailor-made for human voice applications, its 40mm custom-designed stereo speakers are more than capable of handling top notch hi-fi gaming as well as listening to music with your PC. Aside from perfect sound reception, it is also equipped with Accutone sound reception, it is also equipped with Accutone sound reception. microphone. On top of all that, we have reduced the size of the USB module. added the control interface while still fitting it into a compact and stylish casing, giving you digital audio control without compromising convenience.

Now please spend a few moments to read through this user manual before connecting the USB headset to your computer. After familiarizing with the features and functions, you will surely appreciate the top audio performance this unique device has to offer you.



\*\* USB400 VoIP headset is compatible to both desktop and notebook computers with an USB jack. Only the operating systems listed under "Operating Environment" in the section of Specifications of AU400 USB Converter on page 2 are applicable

\*\*\* Outside the operating environments mentioned on page 2, the adaptor is not guaranteed to operate with all computers. The adaptor is not guaranteed to operate with home built computers, operating systems that are personally up-graded or multiple operating systems. The adaptor is also not guaranteed to operate with functions under system suspend, sleep and hibernation modes.

detailed descriptions of all the specifications.

## SPECIFICATIONS

### Stereo Headset CM400

Cord Mass

### Receiver Size

Туре Voice coil

Maximum input power

Impedance Sensitivity

Frequency range Microphone

Design Type

Open circuit voltage level Frequency range

**USB** controller AU400

Frequency range

Data resolution Sampling rate

Operating Characteristics Rx

Receiver gain Output power THD + Noise

S/N @ THD < 0.4% Master volume control range Operating Characteristics Tx

Microphone gain Volume control range Input/ouput jacks

power supply dimensions

operating environment

2m long

Approximately 100 g (without cord)

40mm diameter

Open air dynamic driver unit

CCAW 10mW/20 mW 32Ω ± 15% at 1 kHz

 $93 \pm 3 dB/mW$ 40 - 20.000 Hz

20 - 20 000 Hz

Flexible boom microphone

Electret condenser -47dB (0dB = IV/Pa)

20 - 20.000 Hz (headphone) 100 - 10.000 Hz (microphone)

16 bit

48 kHz Stereo

14dB Max

35mW Max. <0.4% @ P<sub>0</sub>=30mW 20~20,000 Hz

0~46.5dB attenuation

20dB Max.

+ I2dB ~ -34.5dB, I.5dB step output (headphone stereo jack)

impedance load: 16 or  $32\Omega$ input (microphone monaural jack)

plug-in-power system

USB bus power compliant (5V, 100mA)

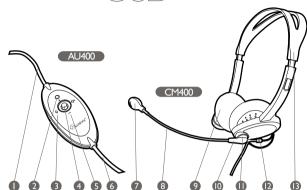
(excluding projections) approx.  $40 \times 100 \times 20 \text{mm}$  (w/d/h)

compliant operating systems:

Windows 98 SE/Windows 2000/Windows Me/Windows XP

Apple Macintosh OSX

CPU: Pentium II 266 MHz or better



## MAIN SWITCHES AND INTERFACE

- Cable ends with USB plug
- 2. Multiple status LED-indicator (red/amber/green)
- 3. Silkscreened muting indications (microphone or speaker mute)
- 4. 4-direction controlling switch (volume adjustments and muting)
- Silkscreened volume indications
- 6. Cable ends with connection to headset
- 7. Microphone Capsule
- 8. Aluminium microphone voice tube
- 9. Ear Pad (including 40mm speaker chamber)
- 10. Adjustable voice tube holder
- 11. Microphone voice tube rotational pivot
- 12. Microphone connecting cable (with SR)
- 13. Extendable double-arm headband

# table of content

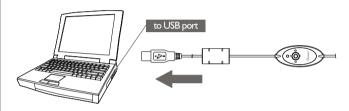
introduction	1
specifications	2
table of content	3
identifying parts	4
connection & setup	5
installing USB driver	6 - 8
operating the software	9 -
verification & configuration	12
troubleshooting	13
precautions, standards & trademarks	14

Setup new device from your computer.

## I CONNECTING THE COMPUTER

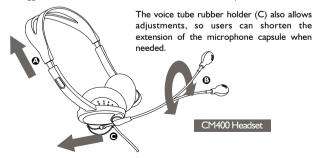
Hooking all the parts together!

Connect the USB plug extended from the AU400 USB controller to the USB port of your notebook or desktop computer. The LED indicator will light up indicating correct connection to the computer.



## **2 ADJUSTING YOUR HEADSET**

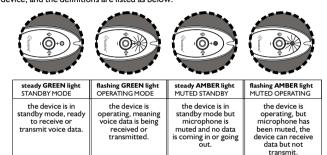
There are multiple points of adjustment with the CM400 headset, designed for comfort as well as accomodating different preferences. The double-arm headband (A) is extendable on both sides to fit different head sizes; and the aluminum microphone voice tube (B) is rotatable so users can place the microphone closer to their mouth if they wish. The suggested distance between a user's mouth and the microphone is 1/2 inch.



## **3 LED INDICATIONS**

The LED-indicator on the AU400 USB controller is able to display various status of the device, and the definitions are listed as below:

installing USB driver



## **4 INSTALLING USB DRIVER & SOFTWARE**

To begin, you should restart your computer, and when your operating system finishes loading, connect the AU400 USB converter to any USB port in your computer. This manual will use Windows XP interface as demonstration but the steps should be identical for Windows 98SE, ME or 2000 versions.



Please note that after you plug in the AU400 USB converter, your operating system may automatically launch the Hardware Installation Wizard. You should abort such installation by pressing cancel, because you should use the Driver Software CD for optimal performance.

- (I) Connect AU400 USB Converter to USB port of computer
- (2) Insert "Driver & Software Installation CD" into your CD-ROM
- (3) Setup program should start automatically
- (4) If Setup program doesn't start, go to the root directory of your CD-ROM and click on the setup.exe file
- \* For setup instructions and troubleshooting of AU400 with Apple Macintosh OSX, please refer to our website at http://www.accutone.com.hk

accutone USB converter - installation guide & user manual

,

**4 INSTALLING USB DRIVER & SOFTWARE** 

Setub new device from your combuter.

Upon starting the installation program, the following welcome screen will be shown, simply follow the InstallShield Wizard according to the following guide:



click Next



you have the option to install only the USB driver or with the 3D Audio Demo program, we recommend you check both and

click Next



the setup program will install the AU400 USB software to a default path and folder

click Next

## **4 INSTALLING USB DRIVER & SOFTWARE**



Please note that in some Windows XP system, you may be prompt at this point asking you about Windows Logo testing issues, simply ignore this message and click Continue Anyway to continue installation.

installing USB driver



C1. ACminstallàudin eve

the setup program should begin to copy files into your system,



after copying all the files, the program will automatically install the required drivers into your system, please be patient as this may take a little while. after successful installation of the drivers, you will have to reboot your system, and when you do, you should be able to see the accutone orange logo displayed on the bottom right



Accutone icon is in the icon tray as shown above.

accutone USB converter - installation guide & user manual





The AU400 driver will only operate when connected to the USB port which you have installed with. If your computer has more than one USB port, you can determine if the port is the correct one by checking whether the orange

corner icon tray.

Enjoying the extra features of the software.

## **5 OPERATING THE SOFTWARE**

Enjoying the extra features of the software.

The AU400 USB converter is equipped with a Sound Configuation software for sound adjustments. You can open the program by simply double clicking on the orange Accutone icon in the icon tray, as shown in section 4 of this manual.



In Main Setting tab, you can choose your output device from headset to desktop speakers.

AU400 is also equipped to be used for digital entertainment applications like surround sound movie viewing and gaming.

speaker, AU400 can simulate 5. I surround sound using Xear 3D technology.

When connected to a desktop

Simply select your application here.

When selected Xear 3D as your DSP mode, you can experience the 5.1 3D-surround effect even with your headset. Choose headset as your Output Device, turn on Xear 3D, and click the rotating icon under the 5.1 Virtual Speaker Shifter during your favorite audio applications.





You can also choose to use S/PDIF output when connected to other digital audio devices.

## **5 OPERATING THE SOFTWARE**

In Mixer tab, the top panel is the Playback Volume Control, and the bottom panel is the Recording Volume Control



In Playback Volume Control, you can adjust the main volume and balance by adjusting the knob. Other volume controls includes Wave, SW Synth., CD Player and Microphone realtime playback.



Microphone realtime playback adjusts the feedback volume of the microphone to yourself. The small hammer icon next to the microphone volume control opens up the microphone advanced adjustments. You can choose to turn on the microphone playback mute or microphone boost function.



Please note that in muting function inside the Playback Volume Control advanced microphone adjustments ONLY mute the volume of the microphone going to the speaker of the headset, the user on the other end can still hear you.



In Recording Volume Control, you can choose the Stereo Mix volume control and the Microphone transmit/record volume control. In this microphone control, you are adjusting the actual outgoing volume. Again, the hammer icon opens up the advanced setting which include mute and microphone boost.

Enjoying the extra features of the software. **5 OPERATING THE SOFTWARE** 

The Effect tab controls the various sound effect you can use with your AU400 adaptor. There are three panels here: Environment Type, Environment Size and Equalizer. 1028 3D Sound Conference on

operating the software



There are 4 standard environment types: bathroom, opera house, underwater and music lounge. Aside from these four, you can

environment types.

environment.

choose from a drop-down menu

under More Option for 27 other

Under environment size, there are

3 selection: small, medium to large

In the equalizer panel you can adjust loudness of various frequencies and save such settings.

You can also choose from the 16 preset options for different types of music.

Under Karaoke tab. you can adjust the microphone effect by selecting

ON Road the ON button, and checking the Microphone Echo option. ☑ Piprone e Edo ✓ Enable Microphune Playback Various Karaoke functions can be set in this section, from adjusting echo loudness to shifting key. You can even remove the vocal sound ☑ Key Shifting from any song using the Vocal Cancellation option, so you can ✓ Vocal Cancellatio

Har Detting Piver | Direct | Essable | Information

have a music-only track.

These functions are applicable to all audio programs.

For all Windows operating systems mentioned earlier, to verify that the installation of

verification and configuration

Double-checking the installation of the driver.

the USB driver is successful, you check within the Device Manager:

**6 VERIFYING SUCCESSFUL INSTALLATION OF THE DRIVER** 

- > click on Start, Settings, and Control Panel.
- ➤ in control panel, click on the **System** icon
- > open up the System Properties page
- > click on the Device Manager tab
- (or Hardware tab and then Device Manager button for Windows XP) in the Device Manager page, make sure that the View Device by Type is
- selected. (\*An alternative way to check whether the USB controller is properly installed, make sure the LED indicator is lit, and press mute, if the light flashes, then the device is properly installed, if not

you should check the details settings as suggested below.)

- Checking the drivers within the Device Manager
- > scroll down and find the Universal Serial Bus Controllers category ▶ open it up and see if you can find the USB Composite Device
- ➤ if yes close it and look for the **Sound Video and Game Controllers** category
- > open it up and find the USB Sound Device (or Accutone Audio adaptor) ▶ if you see both these drivers installed, then the installation is successful
- machine, and try the installation again or check the troubleshooting section in this manual.

## 7 CONFIGURING YOUR AUDIO DEVICE

- For computers which come with an in-built sound card, your have a choice of using the
- USB audio device or the original sound card for your multimedia applications. To configure the currently selected audio device: > go to the Control Panel, click the Multimedia icon or Sounds and Multimedia

> if you cannot locate them, then try to unplug the USB controller, re-boot the

- icon(for Windows Me, 2000 and XP) ➤ select the Audio or Voice tabs, in either one of the pages you will see Preferred Device selected for Sound Playback or Sound Recording to be Accutone USB
- Audio Adaptor or USB Audio Adaptor ▶ click the arrow within the selection and you will find your original sound card's name and choose your preference (\*\*Remember to close all programs before you change this settings. Restart your audio applications accutone USB controller - installation guide & user manual 12

9 PRECAUTIONS ON SAFETY

Precautions and other legal information.

precautions, standards & trademarks

## 8 TROUBLESHOOTING

restart installation

## No sound coming from the headset ▶ the USB blug is not properly blugged into the jack; check if the LED is on or replug

Troubleshooting problems with the device.

- ▶ the 3.5mm headbhone blug and microphone blug are not blugged in their corresponding
- jack: check if the logos match
- ▶ the headset was connected during music software being played: close all software and
- > the audio device selected in your operating system is not correct: go to control panel, select Sounds and Multimedia Properties or Sounds and Audio Device
- Propeties (XP), open Sound Playback tab and select USB Audio Device or Accutone Audio Adaptor in the Preferred Device scroll-down selection. ▶ the volume control for your operating system or music software is set to mute: uncheck
- mute from your system or music software.
- ▶ the computer does not recognize the USB headset: restart your system or re-install the USB headset driver by unplugging and re-plugging the USB plug.

## Cannot record sound from the microphone

- ▶ the microphone blug is not properly blugged in: check the connection of the headset
- > the mic muting function is on: go to Sound and Multimedia (Audio Device) Properties and select Volume control for Sound Recording to check Selected in the Microphone column.
- ▶ the audio device selected in your operating system is not correct; refer to the above section on the same problem but open the Sound Recording tab instead.

- Other problems ▶ I'm using Windows 98 or 98SE, and the unit just doesn't work properly no matter how many times I re-install the drivers: pc running Windows 98SE with AMD processor at 350MHz or faster, and pc that uses VIA Technologies USB Controller will require a Microsoft USB Update Patch file, go to www.accutone.com.hk website, under "more
- information" in the AU400 adaptor section, click "Microsoft Windows 98 Driver Update" and follow the instructions.
- supports the digital play function, check with your CD-ROM manufacturer. \* For problems not listed in the above section, or more detailed instructions to various troubleshooting, please refer back

to FAQ:troubleshooting section in our website at http://www.accutone.com.hk

▶ can hear sound but unable to listen to CD music-playback; make sure CD-ROM

➤ Listening with the headset at high volume may damage your hearing.

- ➤ Adjusting the volume for microphone or headphone too high may cause squealing (feedback sound)
- and can damage your hearing. Do not use while driving and cycling.
- ▶ Place product far away from water, fire, extended exposure of direct sunlight or magnetic field, and places of excessive dust, moist, rain, shock or electromagnetic radiation.
- ▶ Do not drop your headset or subject it to external shock which may cause malfunction. ▶ Do not disassemble or attempt to open up the casing of either adaptor or headset.
- ▶ Whenever unplugging the headset or the adaptor, apply force to the plug part only, lerking the cord
- instead of the plug may cause damage to the product. Do not use any liquid substance to clean the casing of the product.

## 10 SAFFTY STANDARDS - CF MARK

This product had been subject to testing requirement for the CE mark, and has been approved to claim the CE mark for EMC standards (EN55022:09.98+AI:10.00+A2:01.03, EN55024:09.98+A1:10.01+A2:01.03). The validity of the CE marking is restricted to only those

You are cautioned that any change or modification not expressly approved in this manual could void your authority to operate this equipment.

countries when it is legally enforced, mainly in the countries of the European Economic Area.

\* Accutone and the logo design combined are trademarks or registered trademarks of Accutone

## I I TRADEMARKS AND OWNERSHIP

- \* Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the United States and or other countries.
- \* IBM and PC/AT are registered trademarks of International Business Machines Corporation.
- \* Pentium is a trademark or registered trademark of Intel Corporation.
- \* Skype is a trademark or registered trademark of Skype Technologies S.A.
- \* Apple Computer Inc. has intellectual property rights over "Apple", "Macintosh" and "OSX".
- \* In this manual, Microsoft® Windows® XP Home Edition and Microsoft® Windows® XP Professional
  - Edition are referred to as Windows XP, whereas Microsoft® 2000 Professional Edition is referred to as Windows 2000, Microsoft® Millennium Edition is referred to as Windows Me. and Microsoft®

Windows® 98 Second Edition is referred to as Windows 98 SE. \* All other names of systems and products mentioned are trademarks or registered trademarks of their respective owners. ™ marks and ® marks are omitted for convenience purposes.

Technologies Limited.

13

accutone USB controller - installation guide & user manual