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R A D I O F R E Q U E N C Y I N T E R F E R E N C E

NOTE: This equipment has been tested and found to comply with the limits for a Class A device, pursuant to Part 15 of the FCC Rules., and EN50 081-1/2:1992 of CE Test Specifications. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instruction, it may cause interference to radio communications.

C O R R E S P O N D E N C E

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C O N T E N T S

1. OVERVIEW	3
FEATURES	4
2. INSTALLATION	6
WHAT'S IN THE BOX	6
SYSTEM REQUIREMENT	6
6	
HARDWARE INSTALLATION	7
3. EXTERNAL CONNECTIONS	9
BASIC CONNECTIONS	9
CABLES & ADAPTERS	10
APPLE SOUND MANAGER CONTROL PANEL	13
ASIO DRIVER	13
5. U2A CONTROL PANEL REFERENCE	15
INPUT/OUTPUT LEVEL FADERS	15
USB WAVE IN SELECT	16
DIGITAL IN SELECT	16
CLOCK SOURCE	
16	
ANALOG OUT MIXER	18
DIGITAL OUT MIXER	18
MIX MODE	19
SAMPLE RATE	20
REALTIME SAMPLE RATE CONVERTER	
20	
DIGITAL OUT (IEC 958) TYPE	21
BOTTOM OF THE CONTROL PANEL	21
6. APPLICATION	23
SPARK LE	23
7. TROUBLE SHOOTING	27
8. PRODUCT REGISTRATION & TECHNICAL SUPPORT	28
TECHNICAL SUPPORT	29
SPECIFICATIONS	30

1. Overview

Thank you for choosing Waveterminal U2A, an USB digital audio interface.

Waveterminal U2A (U2A) is an USB digital audio interface employing 24-bit A/D, D/A converters for both of IBM compatible computer system and Macintosh computer system. U2A can be used with your digital audio recording software to record and/or playback stereo analog or stereo digital audio sources simultaneously (full duplex) with exceptional audio quality.

USB stands for Universal Serial Bus, which means it connects peripherals to a computer. It is an evolved form of old serial or parallel bus.

USB makes installation of new peripherals much simpler, just plug and play. You do not have to pry open the PC to add a peripheral any more, just plug and turn it on. With USB-compliant computers and peripherals, there are no more worries about IRQ setting, DIP switch setting, or card installation. Even the computer turned on, it is no problem with attaching and removing devices. Just plug and play!

Practically, there is no limit on number of devices that can be connected to the computer. Up to 127 peripherals can be linked to the computer using USB hubs.

USB even provide electrical power to the peripherals. It automatically detects necessary power and supplies it, which eliminates messy power cables from working space.

Windows 98 and Windows 2000 include built-in driver for USB compliant devices. Just look for a port and plug in.

Best of all, take a listen and you will immediately notice the difference in the sound quality. Digital or analog, not all audio interface cards are made the same. If you are a professional or in need of a professional quality USB audio interface, you have made a sound investment in Waveterminal U2A.

FEATURES

24-bit Analog-to-Digital and Digital-to-Analog Converters.

Highest quality 24-bit AD/DA converters in U2A provide unmatched sound quality with exceptionally low noise.

2-In/2-Out Analog Audio Inputs and Outputs.

U2A provides 1/4" phone jacks for use with –10dBV nominal level consumer audio equipment. Unlike some audio cards that deliberately boost their output levels to give you a false sense of audio quality, U2A gives you a true indication of your levels. Nothing's added or taken away unless you intend to do so. If you need to adjust levels, digital level adjustment is provided for analog inputs and outputs.

S/PDIF Coaxial, Optical Digital In & Out

U2A offers S/PDIF digital input and output via Optical or Coaxial ports. There's no additional conversion process for signal already recorded. With optional Dr. D audio interface/converter, you have access to XLR type AES/EBU input and output simultaneously.

Multiple Sample Rate Support

Supports all denomination of 44.1kHz or 48kHz standard sample rates from 32kHz, 44.1kHz and 48kHz. U2A can be used in a variety of applications.

Real-time Hardware Sample Rate Conversion

Regardless of the type of sample rates, U2A automatically converts the incoming digital audio signal to the sample rate of your choice in real-time.

Functions as an independent Signal Converter

When *Digital In Clock Source* is selected, U2A can be operated as an independent signal converter. In this mode, U2A is disconnected from the computer, but it will send out any incoming signal to both analog and digital output ports.

2. Installation

One of many benefits of USB device is easy installation. Just plug and play, you don't need to uncover the computer case or use a screwdriver what so ever. Only thing that you have to remember is that your computer system has to have an USB port.

W H A T ' S I N T H E B O X

WT2496 is shipped with the following contents:

1. Waveterminal U2A (1)
2. Control Panel/ASIO driver CD-ROM (1)
3. User's Manual (1)
4. USB cable -2m (1)
5. Spark LE software CD-ROM (1)

S Y S T E M R E Q U I R E M E N T

Most of all, your system has to have at least one available USB port to use U2A.

1. Macintosh G3, G4, iMAC and Power Book (with USB port)
2. MAC OS 9 or better (USB Device Extension v1.4.1 or better)
3. 1 open USB port
4. 64MB RAM (greatly rely on software's requirement)
5. Digital audio recording/playback software (which is included in the package as bundled software)

Before you begin, make sure you have read your computer's manual on installing USB devices. Your computer's manual should describe the precautions you should take.

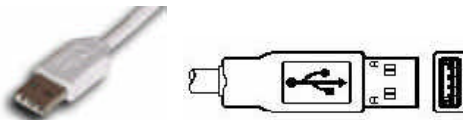
Shutting down computer wouldn't need for installing an USB device to the computer. However, we will take it from the start to make sure you can follow every detail of installation.

1. Find the USB port on your Mac. USB port is looked like below.



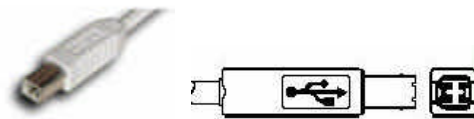
USB port on computer

2. Plug in appropriate plug of USB cable (called Series A plug) to the USB port of computer. You will notice that USB ports on computer and U2A are different.



Series A plug

3. Connect the other end of the USB cable (Series B plug) to the USB port of U2A.



Series B plug

4. Hardware installation is done. Now you will see that Power LED on the U2A is on. USB device is so easy to install you can just plug it in to use.

☛ **Series A Plug** is used for those devices on which the external cable is permanently attached like Mouse, Keyboard and USB hub etc...

☛ **Series B Plug** is for that requires detachable external cables and used for devices like Printers, Scanners, Modems, Stand Alone Hubs.

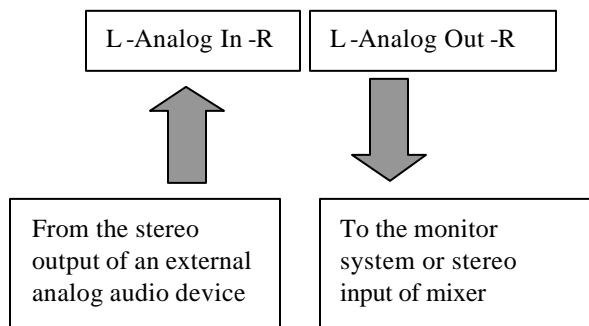
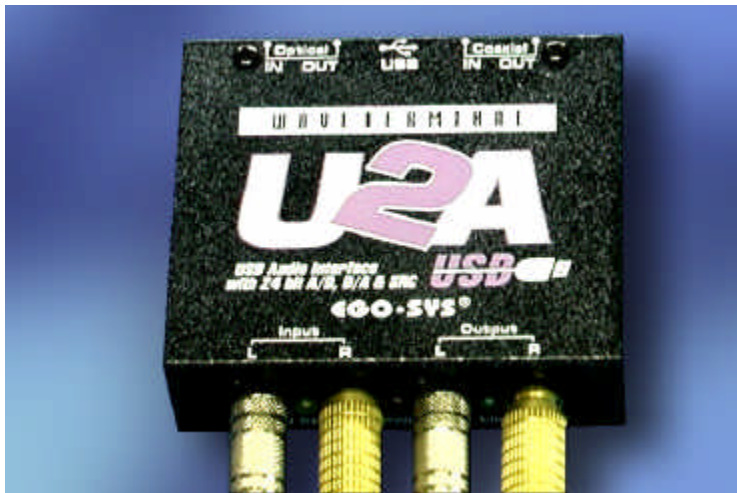
Parts of this manual are continually being updated. Please read the README.TXT file included in the driver diskette for the latest update information, and be sure to check our web site <http://www.egosys.net> occasionally for the most recent update information.

3. External Connections

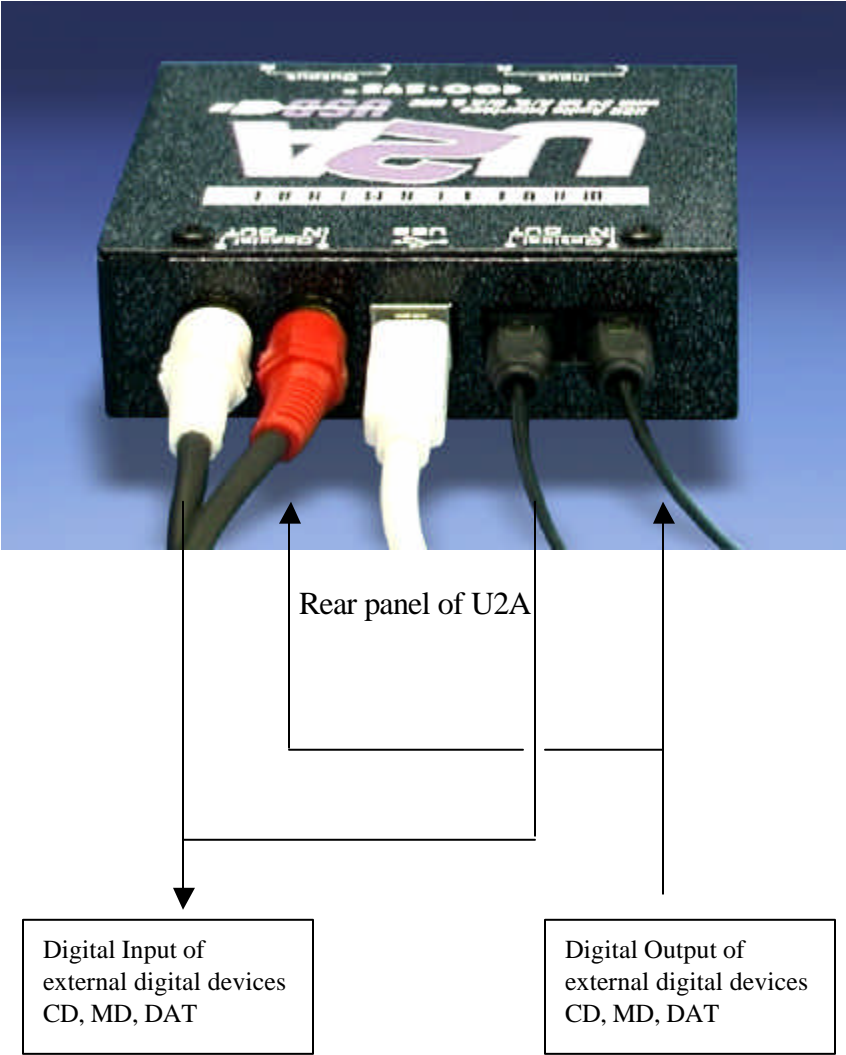
U2A has many features that can enhance your audio production environment. If you are serious enough to about your digital audio, you may want to take time to read through this section carefully. While you may not need all of these features, and simply opt to plug in the cables to get started right away, you should at least be aware of U2A's capabilities – in case you need them later on.

BASIC CONNECTIONS

In a typical audio production studio or workstation, where you have both digital and analog devices, this set up treats your MAC as a stereo master recorder. In this case, monitoring of U2A will be similar to “through-the-tape” monitoring, where you monitor your input and output sources from the tape recorder's point.



If you plan to use U2A in a digital mastering environment, you may choose to connect analog outputs of U2A directly to your power amplifier's inputs instead of sending it through the console/mixer.

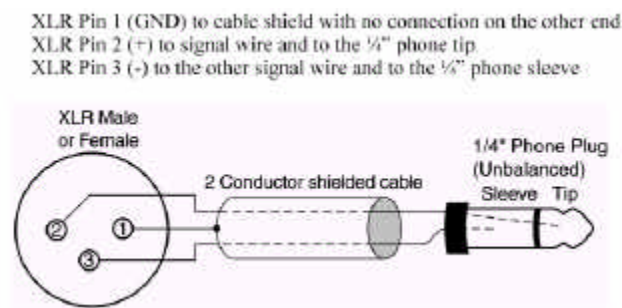


Let's talk about the cables and connectors those can be used with U2A.

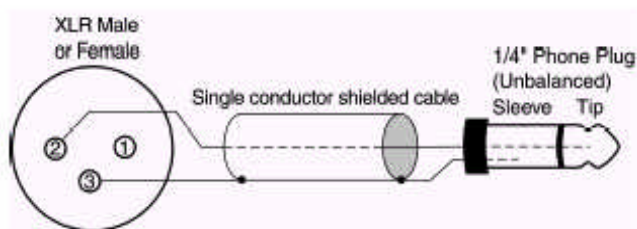
Analog connector

U2A uses 1/4" phone connectors for analog input/output connectors.

The wiring method for unbalanced connections with XLR connectors to 1/4" phone connectors (tip and sleeve only) using shielded twisted pair cable (2 wire + shield) is as follows:



The wiring method for unbalanced connections with XLR connectors to unbalanced 1/4" phone connectors (tip and sleeve only) using coaxial cable (1 wire + shield) is as follows



:

Digital connector

1. Coaxial connector

S/PDIF (IEC-958) uses 75ohm Coaxial cable and RCA connectors. U2A uses RCA connector that is the same cable as used in video transmission. Shown below is conventional RCA connector and you can use this for transmitting/receiving S/PDIF digital audio data from/to U2A.



2. Optical connector

Optical version of S/PDIF interface, which is usually, called Toslink, because it uses Toslink optical components. The transmission media is 1mm plastic fiber and the signals are transmitted using visible LED light. The optical signals have exactly same format as the electrical S/PDIF signal, they are just converted to light signals.



4. Driver Installation

Provided software CD-ROM includes Apple Sound Manager driver control panel and ASIO driver extension (with patch). Here we will explain how you can set up for utilizing them.

APPLE SOUND MANAGER CONTROL PANEL

For the system sound monitoring (include audio CD monitoring) and running Sound Manager driver supported application, you don't need to install or add any special driver or file. The moment you connect the U2A to the USB port on the MAC, you can use U2A instantly. However, as we mentioned in system requirement part, you must have "USB Device Extension" version 1.4.1 or better to use U2A.

Only thing you have to do is double click the U2A control panel icon to open control panel. You need to duplicate Control Panel into the hard drive and select "Add to Favorites" from FILE menu to place it in the Apple Menu so that you can open the Control Panel easily whenever you need to.



U2A Control Panel Icon

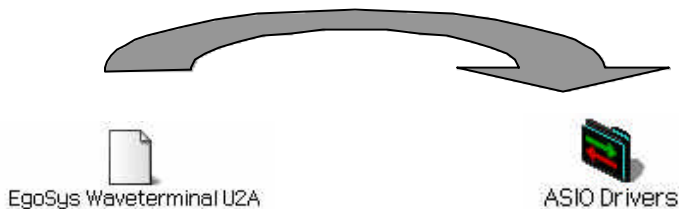
ASIO DRIVER

To use ASIO driver with U2A, it requires some procedure you must follow. Please read carefully and follow the steps below.

1. There is an "USB ASIO" folder in the CD-ROM. You will find an extension named "PGEgoSysU2A". You have to drag it into system folder then the system will place the file into the extension folder automatically.



2. Please reboot the computer to make the new extension enable to use.
3. “USB ASIO” folder in the CD-ROM you can find ASIO patch (pictured below) that should be placed in the “ASIO drivers” folder of desired application (example shows the ASIO drivers folder of Spark LE). Please drag it into the ASIO driver folder of the application.



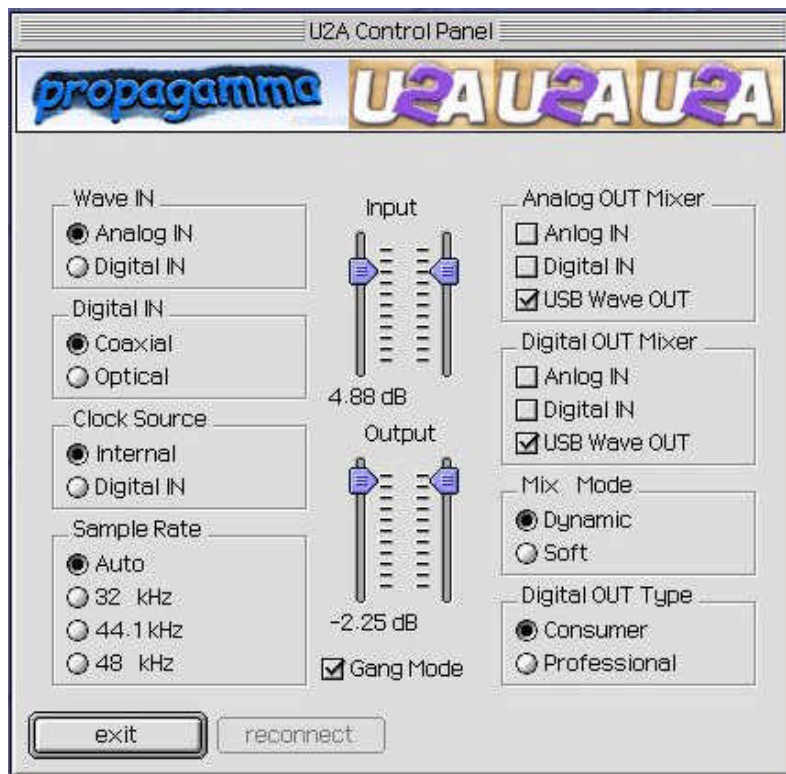
4. Now you can select Waveterminal U2A as an ASIO device within the application.

Please read the README.TXT file included in the driver diskette for the latest driver update information, and be sure to check our web site <http://www.egosys.net> occasionally for the most recent update information

5. U2A Control Panel Reference

If you have properly installed hardware and software control panel for U2A, you can use Apple Sound Manager Control Panel as you can see below.

For user's convenience, U2A control panel is designed to follow logical route of audio signal. Upper left section of the control panel shows input status, Clock Source, Sample Rate selector and selected input goes to level fader section. Right section of the control panel is for output status selection, Mix Mode section and Digital Out Type selector. While reading through this section, it may help to actually sit down in front of your MAC and experiment.



INPUT / OUTPUT LEVEL FADERS

1. Level Faders

Click and drag to change the input and output levels. U2A is fixed to use -10dBV input/output reference level. Check the manuals of the audio equipment you want to connect to

U2A's inputs. It should be -10dBV device. The numbers on the bottom show the relative levels in dB.

2. GANG MODE

Links the L-R faders for stereo operation. Un-select the Gang Mode if you need to control the left and right levels independently.

U S B W A V E I N S E L E C T

Select the input source type for audio recording.

1. ANALOG IN

Selects the analog input port (-10dBV unbalanced) on the U2A as the USB wave input source.

2. DIGITAL IN

Selects the digital input port (SPDI/F Coaxial or Optical) on the U2A as the USB wave input source.

D I G I T A L I N S E L E C T

Select the input connector type for your digital audio input.

1. COAXIAL

Selects the Coaxial input port (RCA type S/PDIF format) on the U2A as the digital input source.

2. OPTICAL

Selects the Optical input port (Toslink, S/PDIF format) on the U2A as the digital input source.

C L O C K S O U R C E

Clock Source determines that U2A will reference to. Clock Source is the time reference that determines precisely where each digital audio sample begins and ends. Also, Clock Source in U2A control panel

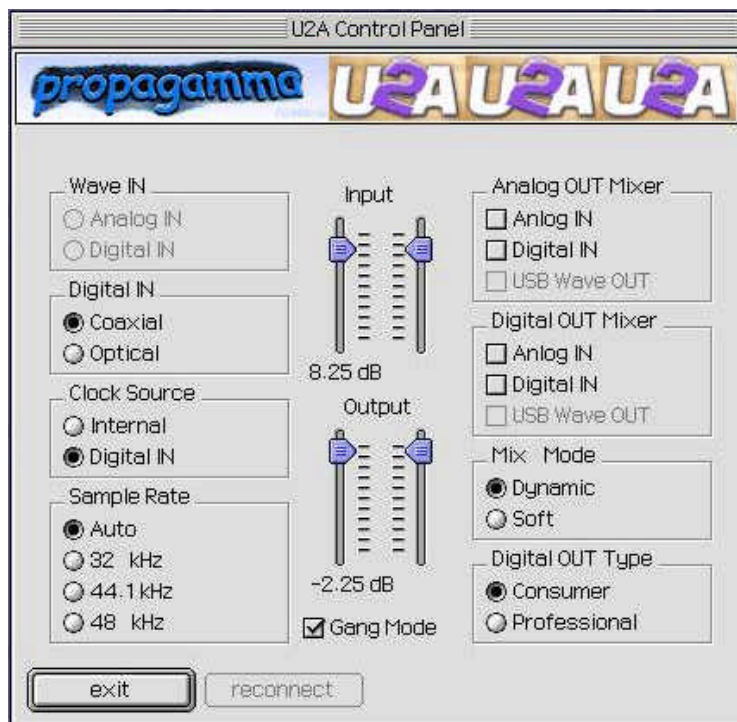
gives unique function to the unit by selecting between two different sources.

1. INTERNAL

Selects U2A's on-board clock source as the reference. This is the default mode for recording analog/digital audio through U2A. Use this mode if you are recording audio signal, playing back audio file or using Realtime Sampling Rate Converter.

2. DIGITAL IN

Selects the digital audio input's data as the clock source. Selecting this mode causes U2A functions as an independent operation status from computer. As you can see below, *USB WAVE IN* section is disabled and *USB WAVE OUT* of *ANALOG/DIGITAL OUT MIXER* section is disabled either.



In this mode, you can operate U2A as a signal converter, but U2A is now completely separate from the computer. That means you cannot record any input source to the computer and play any audio source from the computer. However, any incoming audio signal (either analog or digital) can be sent out through three different output ports. Analog audio signal can

be converted to digital audio data, digital audio data would be converted to analog audio signal and even digital audio data can be transferred to different connector type.

ANALOG OUT MIXER

This is where you select the source that is routed to the Analog Output jacks of U2A. You can select either Analog In or Digital In for input monitoring. USB WAVE OUT can be selected simultaneously with one of the input source monitoring.

1. ANALOG IN

Signal connected to Analog Input ports of U2A is routed to the Analog Output ports for input monitoring.

2. DIGITAL IN

Signal connected to Digital Input port of U2A is routed to the Analog Output ports for input monitoring.

3. USB WAVE OUT

Output of wave device selected to *USB Audio Device* is routed to the Analog Output ports for monitoring.

DIGITAL OUT MIXER

This is where you select the source that is routed to the Digital Output jacks (Coaxial and Optical) of U2A.

1. ANALOG IN

Signal connected to Analog Input ports of U2A is routed to the Digital Output ports for input monitoring.

2. DIGITAL IN

Signal connected to Digital Input port of U2A is routed to the Digital Output port for input monitoring.

3. USB WAVE OUT

Output of wave device selected to *USB Audio Device* is routed to the Digital Output port for monitoring.

M I X M O D E

When more than one output source is selected to be played back simultaneously in the *Analog* or *Digital Out Mixer*, you are actually combining the data of two digital audio signals together, resulting in an overall gain of about 6dB/bit for each signal combined. This can cause the output circuit to overload and create a noticeable click or distortions as the combined level can exceed 0 dB peak level. Mix Mode gives you the choice as to how such excessive levels are handled by U2A.

1. DYNAMIC

The combined signal levels are not adjusted by U2A. In this mode clipping signals are audible, but left untouched. If you want to adjust the levels, you can do so by adjusting the levels from the audio software or by manually reducing the output level faders of U2A.

2. SOFT

The combined signal levels are reduced automatically by U2A, depending on the number of signal sources combined. For two combined signals, the output signal is reduced by -6 dB.

If output monitoring sources don't contain peak level (0 dB peak) programs, combining them probably would not cause any clipping or distortion. In such cases, you may opt for the Dynamic mode, as it will allow you to add the signals for a much 'hotter' output. On the other hand, if your sources already contain peak level programs, you may need to select the Soft mode or manually adjust the levels of each output source you have selected.

Sample rate determines the number of samples per second that is used to convert analog audio to digital audio.

As most of you may know, sample rate for CD-DA is 44.1kHz and professional digital audio masters are usually recorded at 48kHz sample rate. U2A may be used to sample analog audio at 48kHz, but at some point in time it must be converted down to 44.1kHz for it to be used in a viable consumer format, such as CD-DA. Once you convert (dither) the data down to a lower sample rate format, you will experience some losses in frequency response. However, analog audio recorded with higher sample rate and bit resolution will sound cleaner and retain more accurate frequency response when they are dithered down to lower bit rate or converted to lower sample rate.

1. AUTO

Sample rate is automatically set by the selection you make in your digital audio recording software during analog audio recording or by the encoded signal format during digital audio recording.

2. SAMPLE RATE

There are three different sample rates available – 32kHz, 44.1kHz and 48kHz. If you want to convert sample rate in real time, you can select desired sampling rate among them.

R E A L T I M E S A M P L E R A T E C O N V E R T E R

U2A can function as a real-time sample rate converter. This is U2A's unique function that you cannot find from any other digital audio interface. You can change the incoming digital signal to a different sample rate by choosing *Internal* word clock and selecting a desired sample rate. The maximum conversion ratio is 3:1, so if your input signal's sample rate is 96kHz, you can convert it down to 32kHz (96/3) or convert 11kHz signal up to 32kHz (11x 3). Real Time Sample Rate Converting functions only for incoming digital signal. Connect digital source to Coaxial/Optical Input port and choose

desired sampling rate. Now the sampling rate of the signal you can get from digital output port is converted.

However, you cannot change the sampling rate of .wav file that playback through the application. If you try to convert it, it only sounds like sampling up (faster speed than normal) or sampling down (slower than normal).

D I G I T A L O U T (I E C 9 5 8) T Y P E

Digital Out Type selector determines the type of data format to be used on the digital output jack of U2A.

1. CONSUMER (IEC 958 Type II)

Generally known as S/PDIF (Sony Phillips Digital Interface), select this mode if you are sending digital audio output from U2A to a S/PDIF equipped audio device.

2. PROFESSIONAL (IEC 958 Type I)

Generally known as AES/EBU, select this mode if you are sending digital audio output from U2A to an AES/EBU audio device.

Important Notice: Since the adaptation of IEC958 no longer distinguishes between S/PDIF and AES/EBU, some of the older AES/EBU audio equipment require a higher signal level than U2A's digital output levels (which conform to IEC 958 standards). If you experience problems transferring digital audio from U2A to an AES/EBU equipment, you may need a signal converter such as EGO SYS's Dr. D to boost the level.

B O T T O M O F T H E C O N T R O L P A N E L

1. exit

Close U2A Control Panel.

3. reconnect

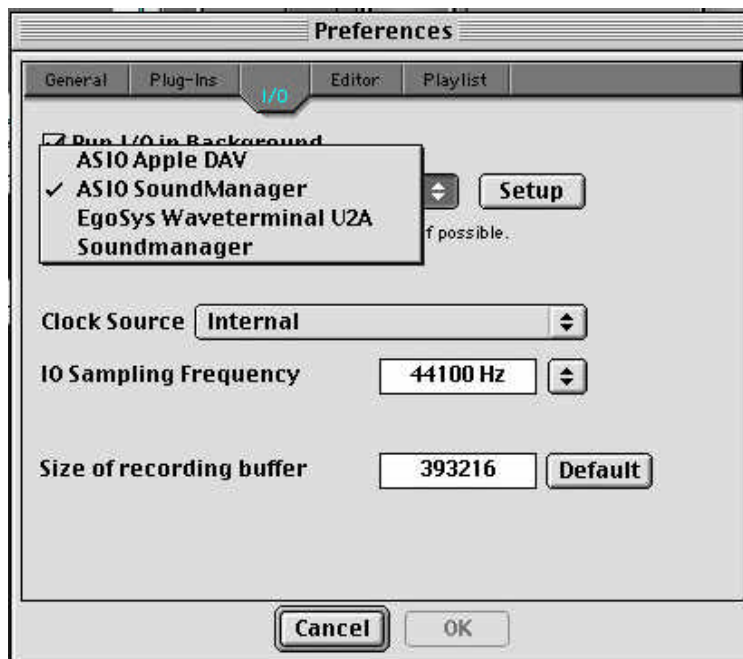
When USB plug connected loosely or the connection broke for some reason, unplug USB cable and plug it again then select this menu to find the U2A. When you re-connect U2A to the computer, allow 5~10 seconds for computer to recognize an USB device.

6. Application

With most digital audio applications, you will find *USB Audio Device* once it has been installed properly. It's just a matter of selecting the sample rate and the bit depth of your preference from thereon. We will discuss setting up U2A to use with a digital audio application. Particularly, we select the Spark LE as the example application, because it is provided as the bundled software with U2A, you can practice to set up with direction.

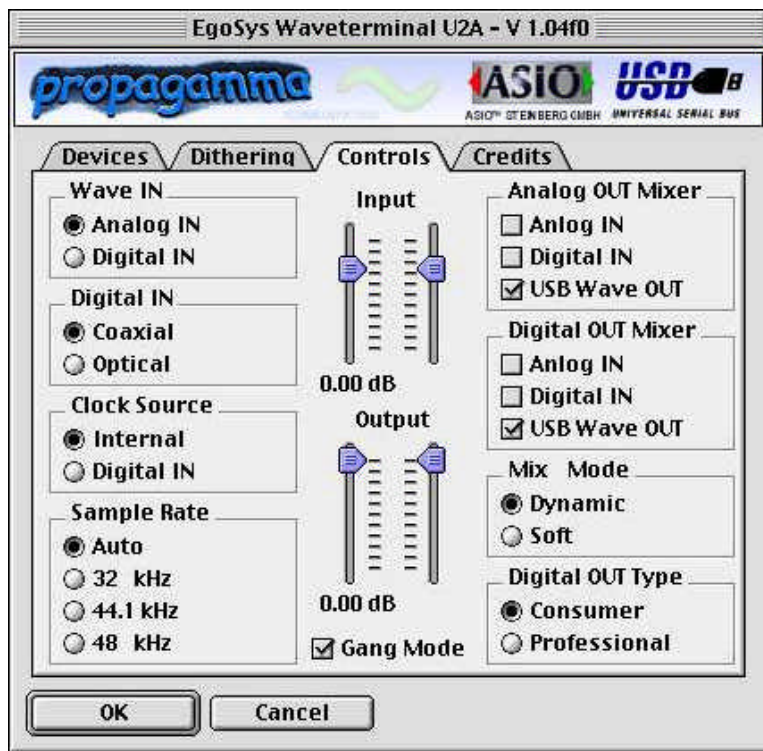
SPARK LE

You have three I/O options to use U2A with SPARK LE. If you select Preferences under the File menu, you can find the place to set the I/O options there. Tab the I/O section and select desired I/O option among Soundmanager, ASIO Soundmanager and EgoSys Waveterminal U2A.



One thing that you should be careful is not to select Soundmanager as I/O option. For some reason, when Soundmanager is selected as I/O option, there may be audible clicking introduced. In this case, you can select ASIO Soundmanager (provided from Steinberg), and it will do same work for you. However, if you want to use ASIO Soundmanager, make sure that “USB audio” is not selected as input device in the Sound control panel of system.

You can see which I/O option is selected from the Transport window of SPARK LE when you select “EgoSys Waveterminal U2A” as the I/O option. If you click “Setup” button under the I/O option view window, below control panel will be appeared.



It looks similar to the Control Panel for Apple Sound Manager, but you only can adjust functions of U2A while ASIO driver is used.

Controlling the panel is same as we discussed in last section – Control Panel.

7. Trouble Shooting

Before you rush to consult your problem to us, please check this section for immediate remedy. You may find simple solution here without consuming time that you wait for the answer through e-mail.

- ☑ I finished to install the hardware and software, but I cannot hear the sound through my monitor system.
- You may need to check U2A is installed properly. If USB plug were not inserted correctly into the USB port, computer would show a message. Check the connection, if you connect output port of U2A to the input of amp/mixer to monitor.
- The other thing to check – control panel of U2A. To monitor the sound of wave file, “USB Wave Out” should be selected from “ANALOG OUT MIXER” section. If you want to monitor input source, you need to check either “Analog In” or “Digital In”.
- Clock Source selection is another important thing to check. If you select “DIGITAL IN” for the Clock Source, you won’t record or playback wave file from the computer. This mode initiates U2A to function as an independent converter device.
- ☑ Playing back sound is too slow (fast) compare to the original file.
- Please check if you select “Internal” for the CLOCK SOURCE and turn the “Auto Set” on. If you select other than “Internal” for the clock source, you cannot control the sampling rate section. .
 - Please visit our website at www.egosys.net for more information. We will update the FAQ and trouble shooting through the website. If there is a problem you cannot find the solution through the Trouble Shooting or FAQ, feel free to contact us.

8. Product Registration & Technical Support

To get product upgrade information and warranty service, you must register your product. You can register your product by completing and sending this form through following methods:

1. By fax (+82 2 780-4454)
2. E-mailing the contents of this form in PLAIN TEXT, PICT, PDF or JPEG format to: webmaster@egosys.net
3. Visit our web site (<http://www.egosys.net>) and fill out an on-line registration form.

Last Name			Date of Purchase		
First Name			Purchased From		
Address 1			Model	Waveterminal U2A	
Address 2		1. What MIDI sequencer do you use most frequently?			
City		2. What audio recording software do you use most frequently?			
State		3. Where did you find out about U2A or EGO SYS products? (check one)			
Zip Code		Magazines	Internet	Retailer	Others
Country		Serial Number			
Telephone		E-mail			

Serial Number for U2A is located on the bottom of the product.

TECHNICAL SUPPORT

If you need technical support, contact your EGOSYS dealer first. If the dealer can't solve your problem, you can contact EGOSYS directly by the following methods:

1. Before you contact us, check FAQ on our home page <http://www.egosys.net>
2. By fax (+82 2 780-4454)
3. E-mail your question to: techsupport@egosys.net

When writing or contacting us, be sure to identify the model and serial number of EGOSYS product, and describe your computer's main performance characteristics (make & model of your MAC, OS version, CPU clock speed, hard drive, and etc.).

Specifications

1. Input Level : -10dBV Unbalance : -10dBV Nominal, +9.0dBV Max
2. Output Level:-10dBV Unbalance : -10dBV Nominal, +8.5dBV Max
3. Input Impedance :Unbalanced Mode 10K
4. Output Impedance :Unbalanced Mode 100
5. Analog Input Gain/Attenuation : Analog 0dB ~ 18dB, 0.5dB Step Size
Digital -72dB ~ 0dB, About 0.5dB Step Size
6. Analog Output Gain/Attenuation : Digital -72dB ~ 0dB, About 0.5dB Step Size
7. Sample Rate : 32KHz,44.1KHz,48KHz
8. A/D Spec
 - 1) Type : AKM Semiconductor, 24Bit, 64x Oversampling
 - 2) Dynamic Range : 100dB A-Weighted, AT -60dBFS measurement method
 - 3) Signal-to-Noise Ratio : 100dB A-Weighted
 - 4) S/(N+D) Ratio : 90dB, AT -0.5dBFS measurement method
 - 5) Interchannel Gain Mismatch : 0.2dB
 - 6) Frequency response : 0 ~ 20KHz (FS=44.1KHz)
9. D/A Spec
 - 1) Type : AKM Semiconductor, 24Bit, 128x Oversampling
 - 2) Dynamic Range :
110dB A-Weighted AT -60dBFS measurement method
 - 3) Signal-to-Noise Ratio : 110dB A-Weighted
 - 4) S/(N+D) Ratio : 94dB, AT -0.5dBFS measurement method
 - 5) Interchannel Gain Mismatch : 0.2dB
 - 6) Frequency response : 0 ~ 20KHz (FS=44.1KHz)
10. Digital I/O Spec
 - 1) Type : Crystal Semiconductor
24Bit Digital Audio I/O with Sample rateConverter
 - 2) Format : IEC60958,AES3,S/PDIF,EIAJ CP1201
 - 3) Sample Rate : 32KHz, 44.1KHz, 48KHz
 - 4) Resolution : 24Bits
 - 5) Sample Rate Converter :
128dB Dynamic Range
1:3 & 3:1 Maximum input to output sample rate ratio

Waveterminal U2A

USB audio interface with 24-bit A/D,D/A and SRC

User's Manual

Macintosh version

EGO·SYS

Waveterminal U2A

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