

I-ONIX

U42S

Owner's Manual



lexicon

dbx
PROFESSIONAL PRODUCTS

IMPORTANT SAFETY INSTRUCTIONS



The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

SAFETY INSTRUCTIONS

NOTICE FOR CUSTOMERS IF YOUR UNIT IS EQUIPPED WITH A POWER CORD.

WARNING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

The cores in the mains lead are coloured in accordance with the following code:

GREEN and YELLOW - Earth BLUE - Neutral BROWN - Live

As colours of the cores in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The core which is coloured green and yellow must be connected to the terminal in the plug marked with the letter E, or with the earth symbol, or coloured green, or green and yellow.
- The core which is coloured blue must be connected to the terminal marked N or coloured black.
- The core which is coloured brown must be connected to the terminal marked L or coloured red.

This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. If the attachment plug needs to be changed, refer servicing to qualified service personnel who should refer to the table below. The green/yellow wire shall be connected directly to the units chassis.

CONDUCTOR		WIRE COLOR	
		Normal	Alt
L	LIVE	BROWN	BLACK
N	NEUTRAL	BLUE	WHITE
E	EARTH GND	GREEN/YEL	GREEN

WARNING: If the ground is defeated, certain fault conditions in the unit or in the system to which it is connected can result in full line voltage between chassis and earth ground. Severe injury or death can then result if the chassis and earth ground are touched simultaneously.

WARNING FOR YOUR PROTECTION READ THE FOLLOWING:

KEEP THESE INSTRUCTIONS

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING LIQUID AND NO OBJECT FILLED WITH LIQUID, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CLEAN ONLY WITH A DRY CLOTH.

DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

POWER ON/OFF SWITCH: If the equipment has a Power switch, the Power switch used in this piece of equipment DOES NOT break the connection from the mains.

MAINS DISCONNECT: The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

FOR UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE: Replace fuse with same type and rating only.

MULTIPLE-INPUT VOLTAGE: This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. Connect this equipment only to the power source indicated on the equipment rear panel. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel or equivalent.

IMPORTANT SAFETY INSTRUCTIONS

DECLARATION OF CONFORMITY

Manufacturer's Name: Lexicon®
Manufacturer's Address: 8760 S. Sandy Parkway
Sandy, Utah 84070, USA

declares that the product:

Product name: I•ONIX U42S

Note: Product name may be suffixed by the letters EU.

Product option: all (requires Class II power adapter that conforms
to the requirements of EN60065, EN60742, or equivalent.)

conforms to the following Product Specifications:

Safety: IEC 60065-01 + Amd. 1

EMC: EN 55013 (2001+A1)
EN 55020 (1998)

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 2006/95/EC
and the EMC Directive 2004/108/EC.

Vice President of Engineering
8760 S. Sandy Parkway
Sandy, Utah 84070, USA
Date: December 29, 2008

European Contact: Your local Lexicon Sales and Service Office or

Harman Music Group
8760 South Sandy Parkway
Sandy, Utah 84070, USA
Ph: (801) 566-8800
Fax: (801) 566-7005

ELECTROMAGNETIC COMPATIBILITY

This unit conforms to the Product Specifications noted
on the **Declaration of Conformity**. Operation is
subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Operation of this unit within significant
electromagnetic fields should be avoided.

- use only shielded interconnecting cables.

U.K. MAINS PLUG WARNING

A molded mains plug that has been cut off
from the cord is unsafe. Discard the mains plug
at a suitable disposal facility. NEVER UNDER
ANY CIRCUMSTANCES SHOULD YOU INSERT A
DAMAGED OR CUT MAINS PLUG INTO A 13 AMP
POWER SOCKET. Do not use the mains plug
without the fuse cover in place. Replacement fuse
covers can be obtained from your local retailer.
Replacement fuses are 13 amps and MUST be
ASTA approved to BS1362.



If you want to dispose this product, do not mix it with general household waste. There is a
separate collection system for used electronic products in accordance with legislation that
requires proper treatment, recovery and recycling.

Private household in the 25 member states of the EU, in Switzerland and Norway may return their used
electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar
new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and
recycling and thus prevent potential negative effects on the environment and human health.

Service Info

If you require technical support, contact Lexicon® Professional Customer Service. Be prepared to accurately describe the problem. Know the serial number of your unit, found on a sticker attached to the bottom of the I-ONIX U42S. If you have not already taken the time to fill out your warranty registration card and send it in, please do so now.

Before you return a product to the factory for service, we recommend you refer to the manual. Make sure you have correctly followed installation steps and operation procedures. If you are still unable to solve a problem, contact our Customer Service Department at **(801) 568-7660** for consultation. If you need to return a product to the factory for service, you **MUST** contact Customer Service to obtain a Return Authorization Number. No returned products will be accepted at the factory without a Return Authorization Number. Please refer to the Warranty information on the following page, which extends to the first end-user. After expiration of the warranty, a reasonable charge will be made for parts, labor, and packing if you choose to use the factory service facility. In all cases, you are responsible for transportation charges to the factory. Lexicon Professional will pay return shipping if the unit is still under warranty.

Use the original packing material if it is available. Mark the package with the name of the shipper and with these words in red: **DELICATE INSTRUMENT, FRAGILE!** Insure the package properly. Ship prepaid, not collect. Do not ship parcel post.

Warranty

This warranty is valid only for the original purchaser and only in the United States.

1. The warranty registration card that accompanies this product must be mailed (or online registration must be completed at www.lexiconpro.com) within 30 days after purchase date to validate this warranty. Proof-of-purchase is considered to be the burden of the consumer.
2. Lexicon Professional warrants this product, when bought and used solely within the U.S., to be free from defects in materials and workmanship under normal use and service.
3. Lexicon Professional's liability under this warranty is limited to repairing or, at our discretion, replacing defective materials that show evidence of defect, provided the product is returned to Lexicon Professional **WITH RETURN AUTHORIZATION** from the factory, where all parts and labor will be covered up to a period of 1 year. A Return Authorization number must be obtained from Lexicon Professional by telephone. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. Lexicon Professional reserves the right to make changes in design or make additions to or improvements upon this product without incurring any obligation to install the same additions or improvements on products previously manufactured.
5. The foregoing is in lieu of all other warranties, expressed or implied, and Lexicon Professional neither assumes nor authorizes any person to assume on its behalf any obligation or liability in connection with the sale of this product. In no event shall Lexicon Professional or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond its control.

Table of Contents

INTRODUCTION	1
Features	1
Unpacking your I-ONIX U42S Desktop	
Recording Interface	2
Included Items	2
System Requirements	2
FRONT PANEL.....	3
REAR AND SIDE PANELS	6
CONNECTING THE I•ONIX U42S	8
Microphones	8
Line Level Sources.....	8
Instruments	8
Computer/Digital Audio Workstation (DAW)	8
Headphones	8
Monitor Speakers	8
Example Connections.....	9
U42S EXAMPLE PROJECT - RECORDING A GUITAR	11
Install Drivers, Control Software, and Cubase® LE 4	11
Set Up Windows® Audio and MIDI (Optional).....	11
Example Project Connections.....	12
Connect the Guitar.....	13
Connect the Computer.....	15
Listen to the Guitar Input (Direct).....	15
Set Up Cubase LE 4 for Use with the I•ONIX U42S... (Windows)	16
Set Up Cubase LE 4 for Use with the I•ONIX U42S... (Mac®).....	17
Record a Track in Cubase LE 4	18
Create a New Project	18
Start Recording.....	19
Listen to the Recording.....	19
Audio Mixdown	20
Options and Features in Cubase LE 4	20
Using the Pantheon II Reverb in Cubase LE 4	20
SPECIFICATIONS	23

Introduction

Congratulations and thank you for purchasing the Lexicon® I-ONIX U42S desktop recording interface!

The patent-pending I-ONIX U42S design fits where it makes the most sense, between your keyboard and monitor. With all monitor and input level controls at your fingertips, you'll wonder why no one ever thought of it before.

Featuring newly designed dbx® microphone preamps on every channel, the I-ONIX U42S is more than equipped to provide professional recordings that keep your music sounding its best. The preamps run on a high-voltage supply to guarantee stability and provide you with a superior recording across a wide dynamic range. Performance driven A/D - D/A converters ensure pristine 24bit/96kHz audio to capture every subtle detail of your performance.

The Lexicon name is synonymous with "the world's best reverb." The Pantheon™ II VST/AU reverb plug-in features 6 reverb types with 16 adjustable parameters, and 35 factory presets that range from Vocal to Live Sound and Special Effects. It's easy to complete your mix and make your music sound its best with the exquisitely rich, full reverbs that made Lexicon famous.

Features

- USB 2.0 connection to DAW - up to 480Mbps
- 44.1 to 96kHz sample rates, 24-bit resolution
- Analog ¼" and XLR combi-jacks on the rear panel for mic/line inputs
- Analog ¼" TRS (Stereo Main) outputs
- dbx® high-voltage, ultra-low noise mic preamps on all analog mic/line inputs
- Supports Windows® and Mac® platforms
- 48V phantom power for each input pair
- Input signal metering via 8 LED's per channel
- Signal mixing and stereo bus signal metering
- ¼" high-output headphone connections
- MIDI In/Out
- Zero latency monitoring
- Low latency ASIO drivers
- Lexicon Pantheon II VST/AU reverb plug-in
- Software suite includes Steinberg®'s Cubase® LE 4, and Toontrack® EZdrummer® Lite

Unpacking your I-ONIX U42S Desktop Recording Interface

Each I-ONIX U42S desktop recording interface is shipped in one carton, containing the U42S unit and a software DVD for Windows® and Macintosh® systems. After unpacking, save all the packaging materials in case you ever have to ship the unit. Thoroughly inspect the I-ONIX U42S unit and packing materials for signs of damage. Report any shipment damage to the carrier that delivered the product or dealer from whom you purchased the product at once.

THE FOLLOWING ITEMS ARE INCLUDED:

- U42S
- Installer DVD containing drivers, the Lexicon Pantheon II reverb plugin, Cubase LE 4 Recording Software, and ToonTrack® EZ Drummer Lite for Mac® and Windows®
- USB cable
- Lexicon Professional warranty registration

NOTE: The full Cubase LE 4 manual is located on the software DVD.

System Requirements

Powerful software for audio recording requires a powerful computer with the right operating system software, processor and memory. Most computers currently sold already meet these requirements, or can be upgraded to be compatible with the I-ONIX U42S. As with all such systems, adding more RAM than the minimum will allow you to do more processing and improve performance.

Windows® Vista, XP

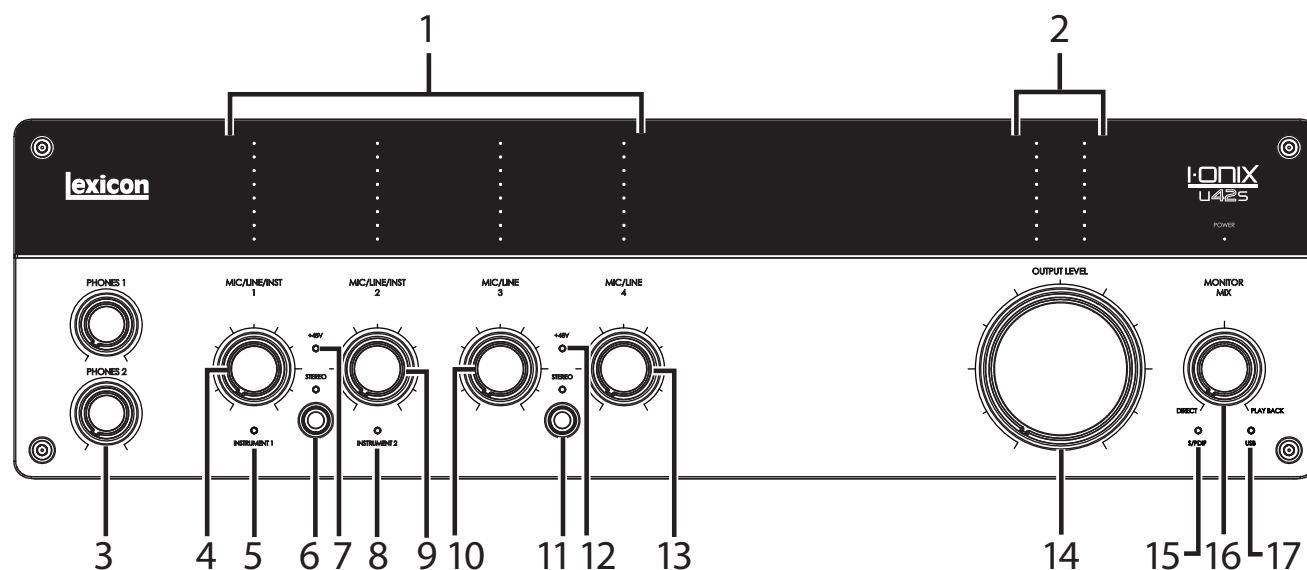
- Multicore system
- 1GB RAM (Recommended)
- Display Resolution 1024 x 768 pixels
- DVD-ROM drive
- Internet access required for software license activation

Mac®

- Intel® Multicore system
- 1 GB RAM (Recommended)
- OS X Version 10.4.9 or higher
- Display Resolution 1024 x 768 pixels
- DVD-ROM drive
- Internet access required for software license activation

Note: Adobe Reader is required to view the pdf documents on the DVD.

Front Panel



1. INPUT LEVEL LEDS

These indicate signal level for each input by showing the remaining head-room before clipping. Their values are:

Red	Clipping
Yellow	-3dB
Green	-6dB
Green	-9dB
Green	-12dB
Green	-18dB
Green	-24dB
Green	-36dB

2. OUTPUT LEVEL LEDS

These indicate signal level for each input by showing the remaining head-room before clipping. Their values are:

Red	Clipping
Yellow	-3dB
Green	-6dB
Green	-9dB
Green	-12dB
Green	-18dB
Green	-24dB
Green	-36dB

3. PHONES 1 AND PHONES 2 LEVEL KNOBS

Adjust headphone output signal level here. The Phones 1 knob controls the Phones 1 level, and the Phones 2 knob controls the Phones 2 level.

4. MIC/LINE/INST 1 GAIN KNOB

Adjusts the input gain level for Mic/Line 1 or Instrument 1.

5. INSTRUMENT 1 LED

Lights when a 1/4" plug is inserted into the Instrument 1 jack on the right side panel.

6. STEREO BUTTON AND STEREO LED - MIC/LINE/INST 1 AND MIC/LINE/INST 2

This button toggles between Stereo mode and Mono mode for the Mic/Line 1 input (or Instrument 1 input) and Mic/Line 2 input (or Instrument 2 input). The LED lights when Stereo mode is on.

In **Stereo mode** (Stereo LED is on), the Instrument 1 and Mic/Line 1 input signals are sent to the Left Main Out, while the Instrument 2 and Mic/Line 2 input signals are sent to the Right Main Out.

In **Mono mode** (Stereo LED is off), each pair of input signals is mixed together and sent to the Left and Right Main Outs as a mono signal. One pair includes Instrument 1 or Mic/Line 1 and Instrument 2 or Mic Line 2.

7. 48V LED

Lights when phantom power is active for the Mic/Line 1 and 2 input pair. Phantom power can be turned on for any combi-jack input pair via the 48V buttons on the back panel. Dynamic microphones do not require phantom power to operate, but are not harmed by it. Most condenser microphones do require phantom power to operate. If you are unsure about the phantom power requirements for your microphone, consult your microphone's documentation or contact the manufacturer.

8. INSTRUMENT 2 LED

Lights when a 1/4" plug is inserted into the Instrument 2 jack on the right side panel.

9. MIC/LINE/INST 2 GAIN KNOB

Adjusts the input gain level for Mic/Line 2 or Instrument 2.

10. MIC/LINE 3 GAIN KNOB

Adjusts the input gain level for Mic/Line 3.

11. STEREO BUTTON AND STEREO LED MIC/LINE 3 AND MIC/LINE 4

This button toggles between Stereo mode and Mono mode for the Mic/Line 1 input (or Instrument 1 input) and Mic/Line 2 input (or Instrument 2 input). The LED lights when Stereo mode is on.

In **Stereo mode** (Stereo LED is on), the Mic/Line 3 input signal is sent to the Left Main Out, while the Mic/Line 4 input signal is sent to the Right Main Out.

In **Mono mode** (Stereo LED is off), each pair of input signals is mixed together and sent to the Left and Right Main Outs as a mono signal. One pair includes Mic/Line 3 and Mic/Line 4.

12. 48V LED

Lights when phantom power is active for the Mic/Line 3 and 4 input pair. Phantom power can be turned on for each combi-jack input pair via the 48V buttons on the back panel. Dynamic microphones do not require phantom power to operate, but are not harmed by it. Most condenser microphones do require phantom power to operate. If you are unsure about the phantom power requirements for your microphone, consult your microphone's documentation or contact the manufacturer.

13. MIC/LINE 4 GAIN KNOB

Adjusts the input gain level for Mic/Line 4.

14. OUTPUT LEVEL KNOB

Controls the Left and Right Main output level.

15. S/PDIF LED

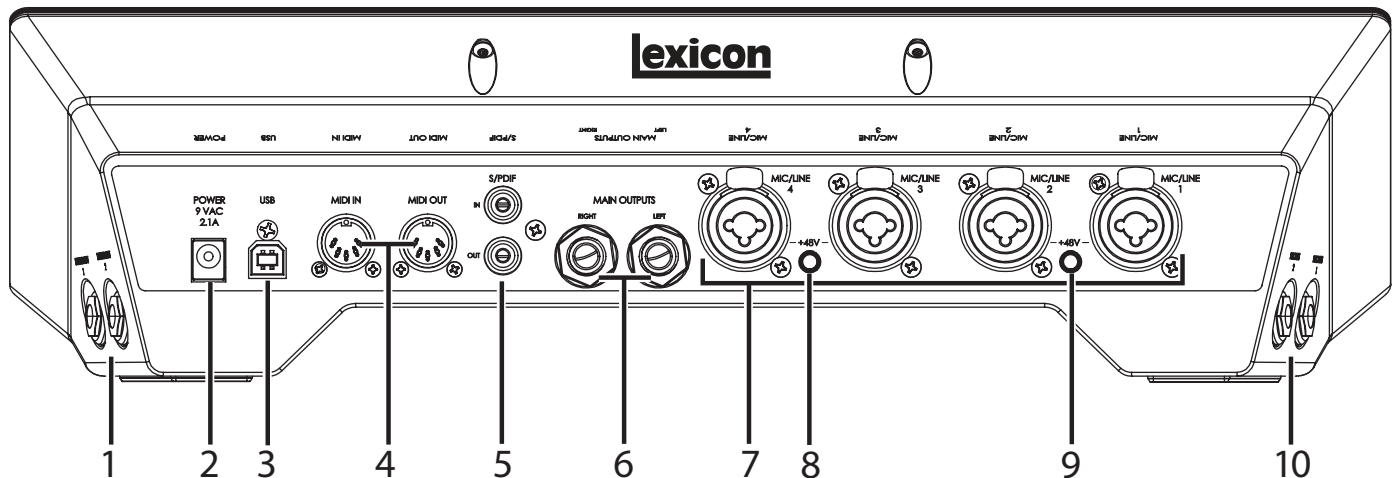
Lights when a S/PDIF connection is detected. Note that a connection to S/PDIF can only be made when a USB connection is established.

16. MONITOR MIX KNOB

The I-ONIX U42S unit gives you the ability to hear your analog input signals directly and immediately while recording without having to adjust levels in software and before the delay caused by digital converters and computer recording latency. This zero-latency analog monitoring is controlled by the Monitor Mix knob, which you can use to adjust the blend between the live analog inputs (called “Direct”) and any sounds coming back from the computer via USB (“Playback”). To adjust the playback mix coming back from the computer (previous tracks, effect returns etc.), use the faders on the Mixer screen of the software. To hear only the live source input signals plugged into the U42S, turn the Mix knob fully left to Direct. To hear only the mix from the computer, turn the Mix knob fully right to Playback. Any signal coming in on the S/PDIF input is converted to analog and sent to the mix control so that you can monitor this input directly just like an analog input. The output from the Monitor Mix control is routed to the Line and Headphone outputs.

17. USB LED

Lights when a USB connection is detected.



1. INSTRUMENT 1 AND INSTRUMENT 2 INPUTS

These unbalanced inputs accept 1/4" connectors and support instrument level sources (including guitars). Note that when the Instrument 1 input is connected, the Mic/Line input 1 is disabled. The same is true for the Instrument 2 and Mic/Line 2 inputs: when the Instrument is connected, the Mic/Line is disabled.

2. POWER JACK

Use only the included PSS3-xxx power supply (where "xxx" indicates the appropriate mains voltage).

3. USB PORT

The USB Port is used to connect the U42S to your computer. A standard USB cable is included. The U42S is only compatible with USB 2.0.

4. MIDI IN AND OUT

The MIDI jacks provide MIDI input and MIDI output to and from your computer. Connect your MIDI keyboards, sound modules, and external controllers here.

5. S/PDIF IN AND OUT

The S/PDIF in and out ports are unbalanced phono (*RCA*) connectors that transmit and receive either a 16-bit or 24-bit two-channel audio stream. S/PDIF ports may be found on many professional and consumer CD and digital audio recorders. It is recommended to use 75-Ohm coaxial cable for S/PDIF transfers and keep the cable length to a maximum of 10 meters to minimize interference and data dropout.

6. MAIN OUTPUTS

These outputs support balanced TRS or unbalanced TS 1/4" connections. These outputs can be connected to a mixing board, power amplifier, powered studio monitors, recorder, or another line level input. For best performance, use balanced cables for these connections.

7. MIC/LINE INPUTS 1-4

These balanced inputs accept XLR or 1/4" connectors, and support mic and line level sources. Note that when the Instrument 1 input is connected, the Mic/Line input 1 is disabled. The same is true for the Instrument 2 and Mic/Line 2 inputs: when the Instrument is connected, the Mic/Line is disabled.

8. 48V PHANTOM POWER BUTTON - MIC/LINE 1 AND MIC/LINE 2

This enables the phantom power to the Mic/Line 1 and Mic/Line 2 inputs. When it's on, the +48V LED between Mic/Line/Inst Gain knobs 1 and 2 lights on the front panel. Dynamic microphones do not require phantom power to operate, but are not harmed by it. Most condenser microphones do require phantom power to operate. If you are unsure about the phantom power requirements for your microphone, consult your microphone's documentation or contact the manufacturer. This switch should be OFF if you are connecting any line-level source to the Mic In jacks.

9. 48V PHANTOM POWER BUTTON - MIC/LINE 3 AND MIC/LINE 4

This enables the phantom power to the Mic/Line 3 and Mic/Line 4 inputs. When it's on, the +48V LED between Mic/Line/Inst Gain knobs 3 and 4 lights on the front panel. Dynamic microphones do not require phantom power to operate, but are not harmed by it. Most condenser microphones do require phantom power to operate. If you are unsure about the phantom power requirements for your microphone, consult your microphone's documentation or contact the manufacturer. This switch should be OFF if you are connecting any line-level source to the Mic In jacks.

10. HEADPHONE 1 AND HEADPHONE 2 JACKS

The Headphone outputs accommodate stereo headphones with a 1/4" stereo plug. These outputs are the same as those sent to the Main Outputs, but with their own independent level controls.

Connecting the I•ONIX U42S

Microphones

Plug an XLR cable directly from a microphone into the desired Mic/Inst input on the U42S rear panel.

If your microphone requires phantom power, first make sure the microphone is connected, then press the +48V button/LED for the corresponding input pair on the rear panel. If your mics don't need phantom power, it is best to leave it off.

Note: Some microphones can be damaged by +48V phantom power. Consult your microphone's documentation before enabling +48V phantom power.

Line Level Sources

Line level sources include keyboards, drum machines, CD players, and external microphone preamps and effects. Plug a 1/4" TS (unbalanced) or TRS (balanced) cable directly from the line level source into the desired Mic/Inst input on the U42S rear panel.

Instruments

The Instrument jacks on the right side panel accept signals from instruments like electric guitars and basses. Plug a standard unbalanced 1/4" TS (instrument) cable directly from the instrument into one of the Instrument input jacks on the right side panel of U42S.

Computer/Digital Audio Workstation (DAW)

Connect your computer's USB port to the USB port on the U42S rear panel using a standard USB cable (included).

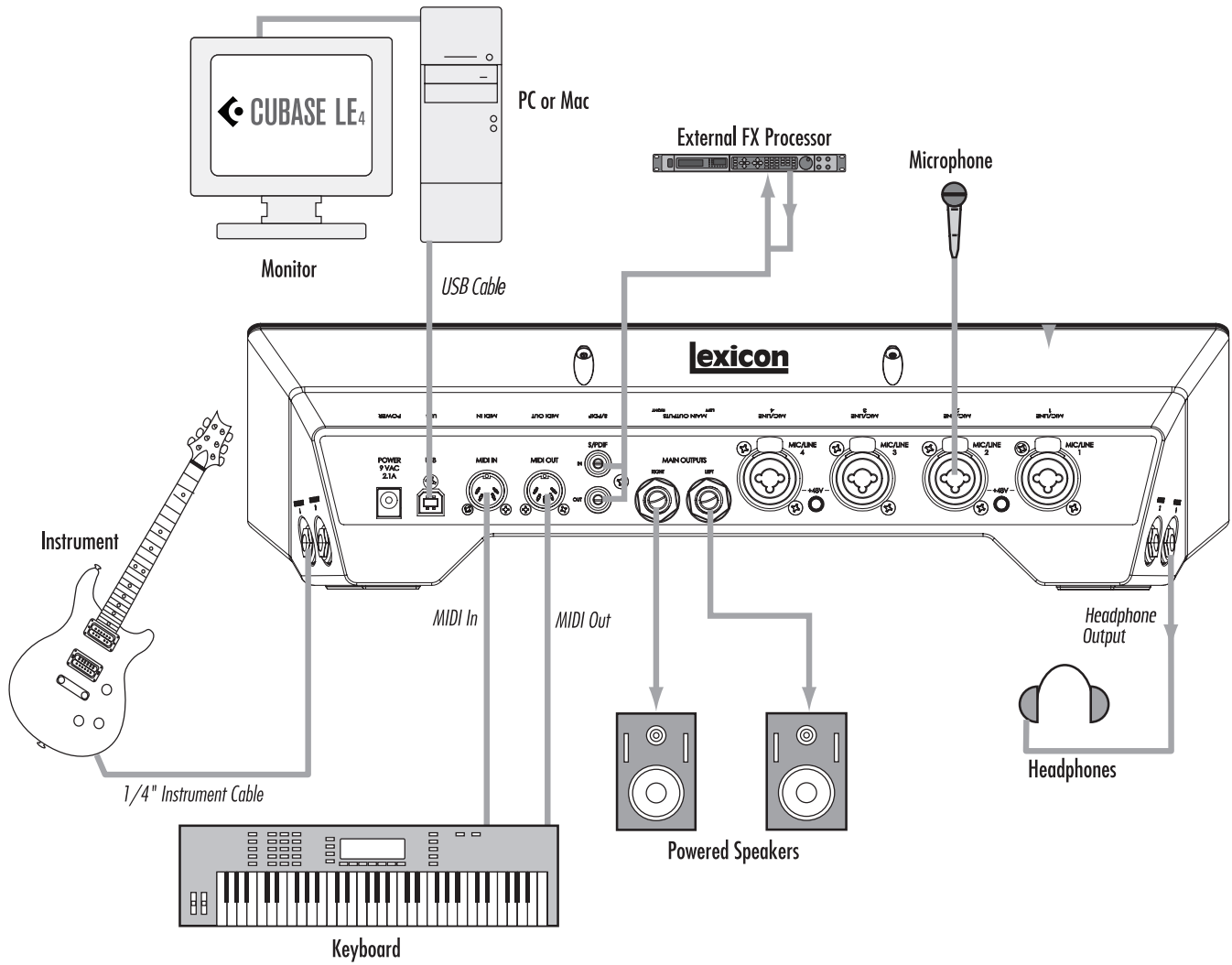
Headphones

Connect headphones to the Headphone jack(s) located on the left side panel. The Headphone jacks accept 1/4" TRS connectors. Adjust headphone volume with the Phones 1 or Phones 2 Level knobs.

Monitor Speakers

Using 1/4" cables, connect the L/R Main Output jacks on the rear panel to the appropriate inputs on your mixer, power amp, or powered monitors. Adjust the output volume with the Output Level knob. For best performance, use balanced cables.

Example Connections



U42S Example Project - Recording a Guitar

Follow the steps in this example to start using the U42S and become familiar with it. This example uses Cubase® LE 4, but the U42S works with many DAW applications.

Install Drivers, Control Software, and Cubase® LE 4

1. Insert the DVD into your DVD-ROM drive. The Installer should start automatically.

If the Installer doesn't start automatically, you can start it manually by opening the appropriate file on the DVD:

Mac®:	Open Me
Windows®:	InstallationMenu.exe

2. Once the Installer is open, follow the on-screen instructions to install the software you wish to use.

Note: You must install the I-ONIX U42S Drivers to use the U42S with Cubase® LE 4. You must also install Cubase LE 4 to follow the steps in the example project on the following pages.

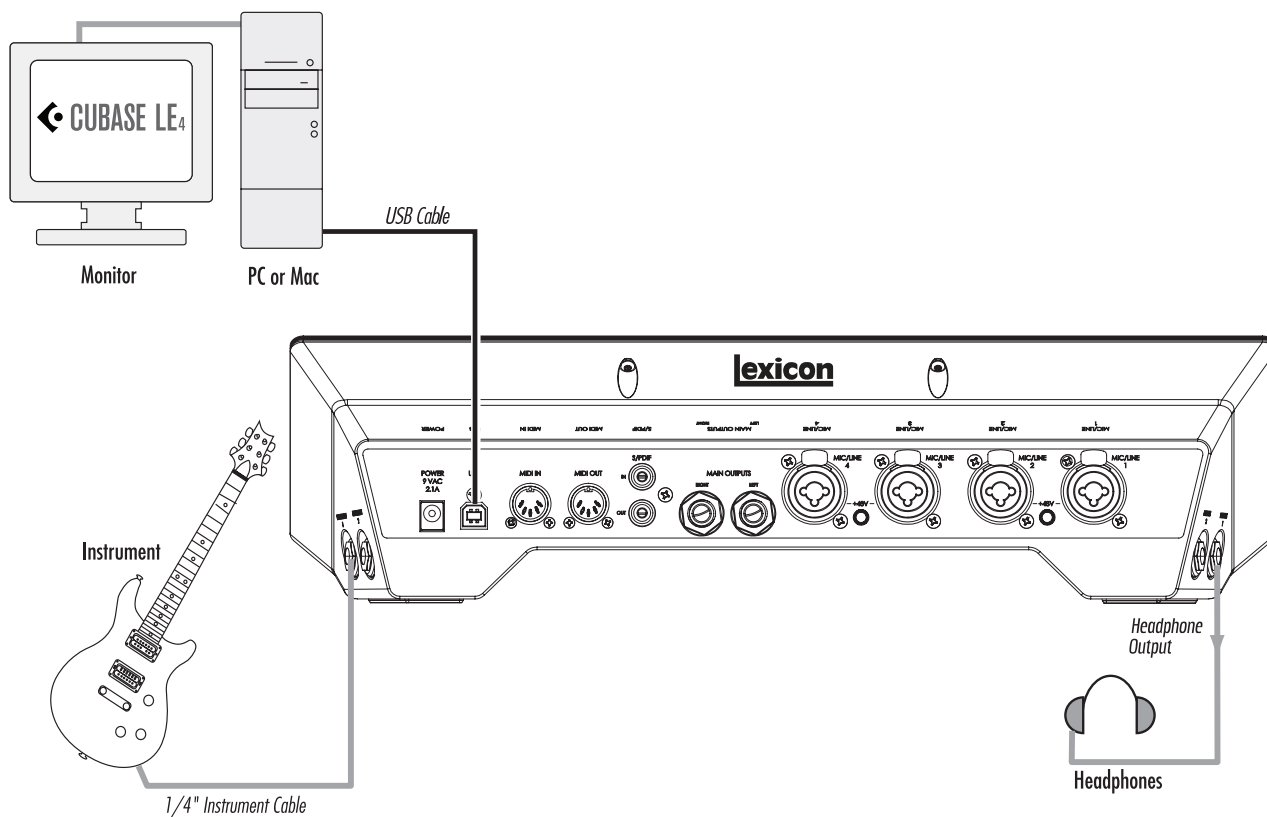
The latest drivers can also be downloaded from www.lexiconpro.com.

Set Up Windows® Audio and MIDI (Optional)

When the Drivers and Control Software were installed, Windows may have automatically selected them as your default audio and MIDI outputs. This means that your Windows sounds will be sent to the U42S rather than your computer's sound card. We need to check if these have been changed and return the settings to what they were before.

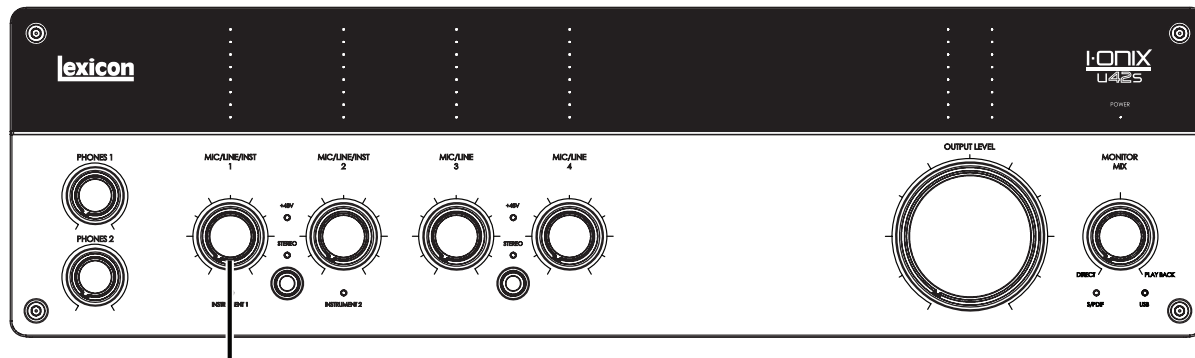
1. Select **Start>Control Panel>Sound and Audio Devices (XP) or Hardware and Sound (Vista)**.
2. Select the **Audio** tab (XP) or **Manage Audio Devices (Vista)**.
3. Under **Sound Playback>Default** device (XP), or **Playback (Vista)**, make sure your computer's sound card is selected as the default device.
4. Under **Sound Recording>Default** device (XP), or **Recording (Vista)**, make sure your computer's sound card is selected as the default device.
5. Under **MIDI Music Playback>Default** device, open the pull-down menu and make sure Microsoft GS Wavetable Synth is selected as the default device (XP only).

Example Project Connections



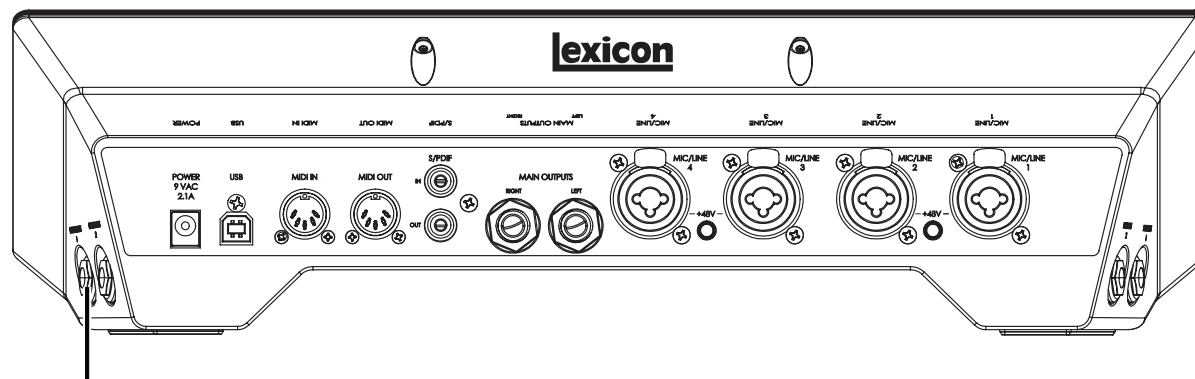
Connect the Guitar

1. Turn the **Mic/Line/Inst 1** knob all the way down.



Mic/Line/Inst 1 Knob

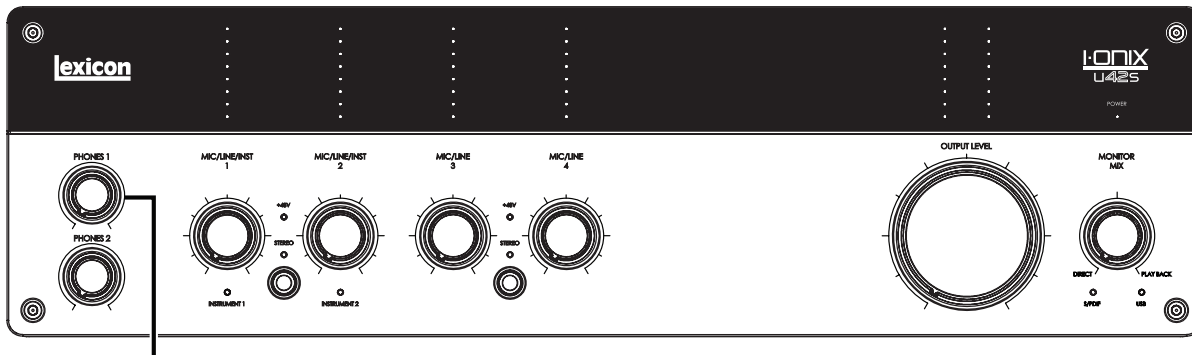
Connect your guitar to the **Instrument 1** input on the right side panel.



Instrument 1 input

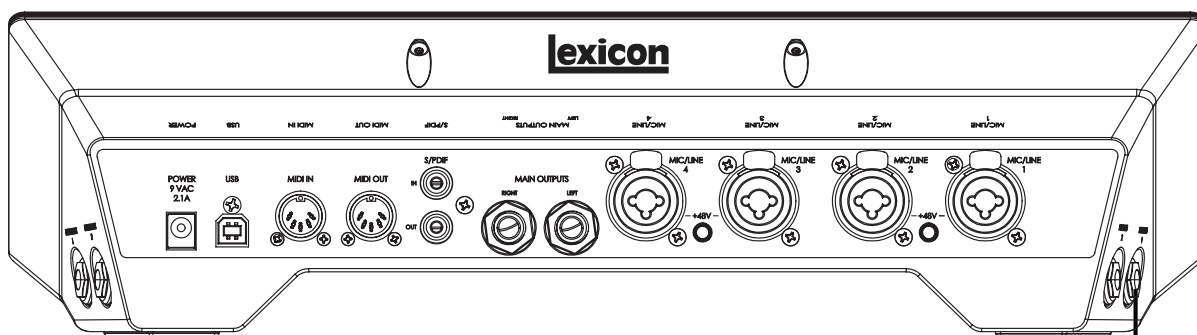
Connect the Headphones

2. Turn the **Phones 1** knob all the way down.



Phones 1 Knob

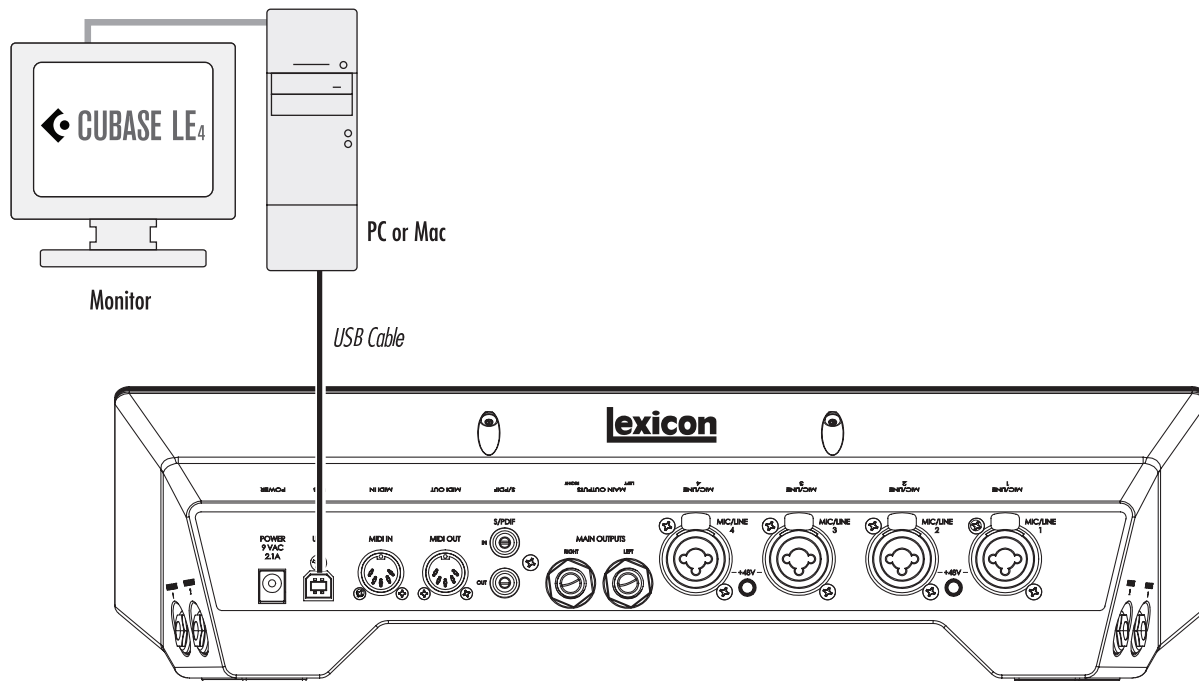
3. Connect your headphones to the **Phones 1** jack on the left side panel.



Phones 1 input

Connect the Computer

Connect your computer's USB port to the USB port on the I-ONIX U42S rear panel using a standard USB cable (included).

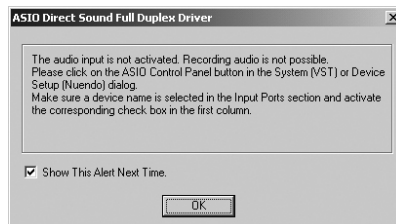


Listen to the Guitar Input (Direct)

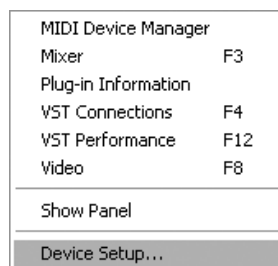
1. Put on the headphones
2. Set the monitor mix to 12:00. This will let you hear an equal blend of the signals going into the U42S as well as signals coming from Cubase.
3. Play the guitar.
4. Gradually turn up the Phones 1 knob until you reach a comfortable listening level.

Set Up Cubase® LE 4 for Use with the I•ONIX U42S (Windows®)

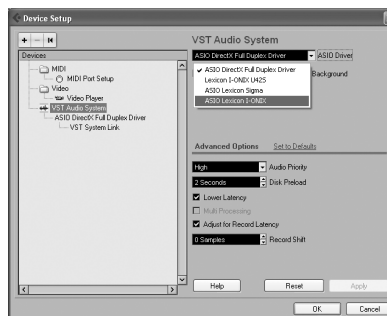
1. Make sure the included USB cable is connected to your computer and to the U42S and the U42S is turned on.
2. Start Cubase® LE 4 (from the Start menu under Lexicon®).
3. If you see the warning shown below, click **OK**.



4. Once you are in Cubase LE 4, go to **Devices>Device Setup**.



5. Under Devices, click on VST Audio System and select **Lexicon I-ONIX U42s** from the ASIO Driver pull-down menu if it is not already selected. Click on Switch to switch the driver, then click OK in the Device Setup dialog. You are now ready to begin recording using your U42S and Cubase LE 4.

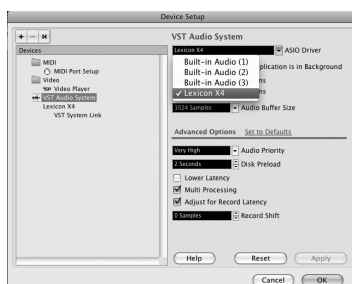


Set Up Cubase LE 4 for Use with the I•ONIX U42S (Mac®)

1. Make sure the included USB cable is connected to your computer and to the U42S, the Mixer is open, and the U42S is turned on.
2. Open Cubase LE 4 (located in the Applications folder), and go to **Devices>Device Setup** as shown below.



3. Click **VST Audio System** and select **Lexicon I-ONIX U42s** as the ASIO Driver if it is not already selected.



4. Cubase® LE 4 will now ask you if you would like to switch the driver. Select **Switch** then **OK**.




Mac® OS 10.4.x users only: After selecting Lexicon X4 as the ASIO Driver, you may need to verify that your device inputs are active. To do this, follow these steps:

1. Select **Device>VST Connections** from the menu bar.
2. When the VST Connections panel appears, click the **Inputs** tab.
3. The box under the Audio Device column may say "**Not Connected**". If it does, click in this box and select **Lexicon I-ONIX U42s** to enable the U42S inputs.
4. Close the VST Connections window.


You are now ready to start recording with Cubase LE 4, described in the next section,

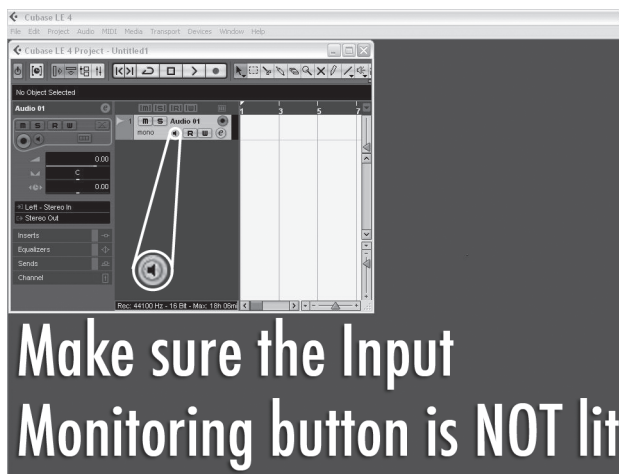
Record a Track in Cubase® LE 4

Create a New Project

1. In Cubase, click **File > New Project**. The **New Project** dialog opens.
2. Select **Lexicon I-ONIX U42S Mono In** and click **OK**.
3. Select a project folder and click **Choose**.
4. Add a mono track by clicking **Project -> Add Track -> Audio**. Choose the **Mono** configuration and click **OK**.
5. In the **Audio 1** window, the Record Enable button  should already be red. If it isn't, click it so that it turns red.

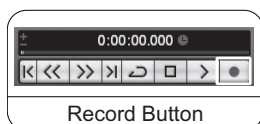


6. In the **Audio 1** window, click the Input Monitoring button  so that it is not lit.

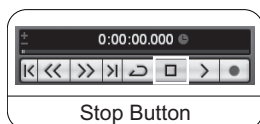


Start Recording

1. Click the **Record** button on Cubase® LE 4's Transport control.

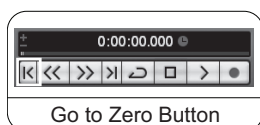


2. Play the guitar.
3. When you are finished recording press the **Stop** button.

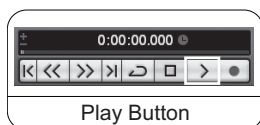


Listen to the Recording

1. In Cubase, click the **Go to Zero** button.



2. Turn the **Phones 1** knob all the way down.
3. Put on the headphones.
4. In Cubase, click the **Play** button.



5. On the U42S, gradually turn up the **Phones 1** knob until you reach a comfortable listening level.

Once you add a track to your Cubase project the Input Routing field will default to U42S In 1. However if you connect instruments to other inputs on the U42S you will need to change the input routing for the track you are recording onto. Please refer to the chart below to see how the input routing labels in Cubase LE 4 correspond to the physical inputs on the U42S.

U42S Input	Input Routing Labels for Mono Tracks in Cubase LE 4 (When using the Lexicon® I-ONIX U42S Mono In Project Template)
1	U42S In 1
2	U42S In 2
3	U42S In 3
4	U42S In 4

Audio Mixdown

You can use the audio mixdown function in Cubase® LE 4 to create a .wav file from your Cubase project. The .wav file can then be burned onto a CD or played using your computer's media player. Cubase LE 4 does not mixdown to mp3 format; however, you can use other software to convert a .wav file to mp3 format.

To mixdown your project, you will first need to set the left and right locators; one way to set the locators is to press [Ctrl] + [A] on your computer's keyboard and then press [P]. You can also click and drag either of the markers to the desired position.

Once the locaters are set, go to File > Export > Audio mixdown. Click on the 'Choose' button and name the file in the 'File name:' field and select the location that you want the .wav file to be saved to in the 'Look in' field and click the 'Save' button. The file must first be saved onto your computer's hard drive before it can be burned onto a CD.

Next, select Wave File (.wav) in the 'File Format' field, set 'Sample Rate' to 44.1 kHz, set 'Bit Depth' to 16 bit, and click Export.

Options and Features in Cubase LE 4

Cubase LE 4 contains many advanced features and options for recording, editing and mixing audio. To learn more about these features please see the 'Getting started' and 'Operation Manual' sections found in Cubase LE 4 under Help > Documentation.

Using the Pantheon II Reverb in Cubase LE 4

The Pantheon reverb can be set up in Cubase LE 4 in two ways: as an insert on an audio track, or as an insert on an FX channel.

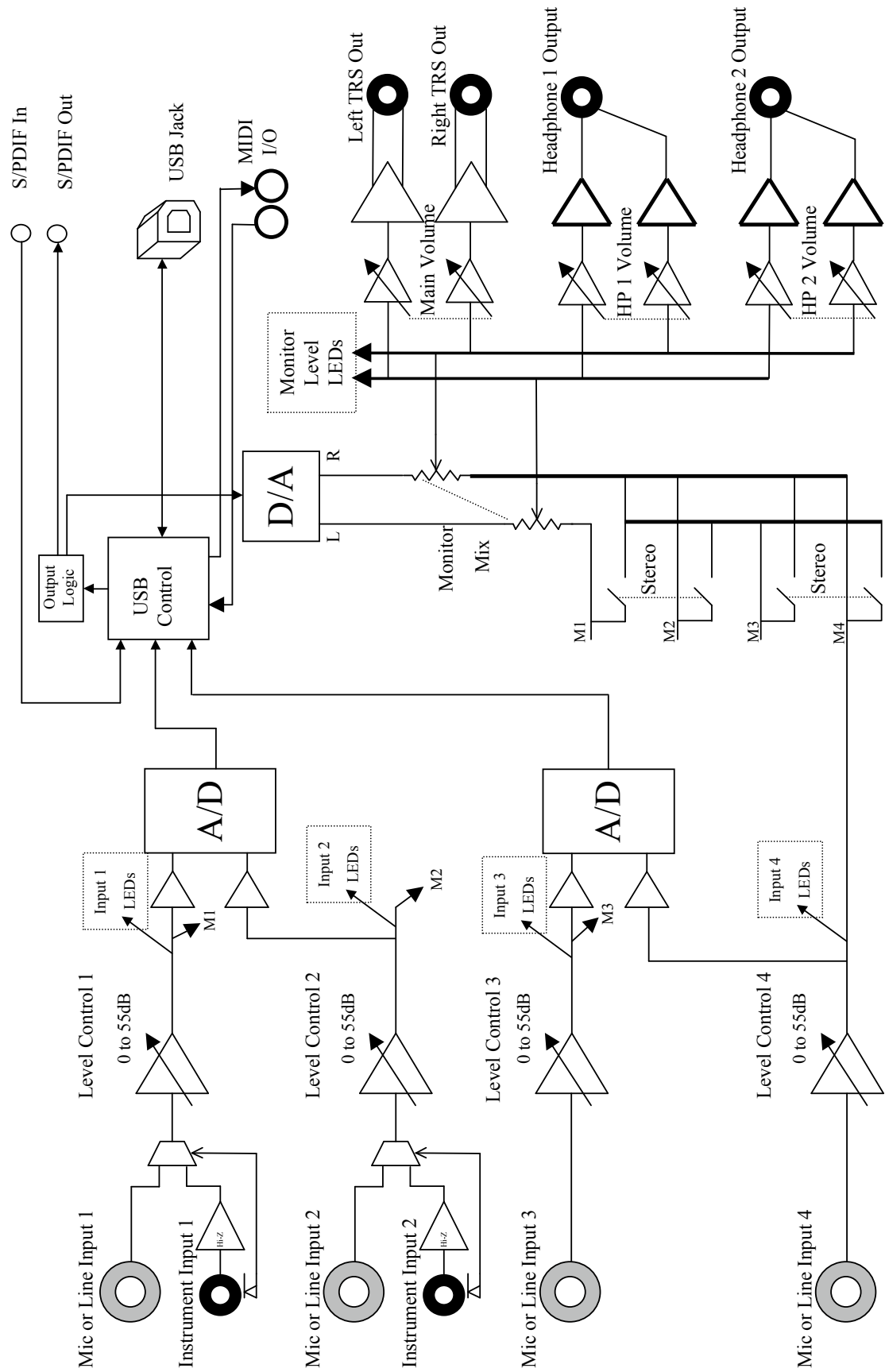
To use the Pantheon as an insert on an audio track:

1. Click the **Inserts** tab for the channel on which you wish to insert the Pantheon II reverb.
2. Click in a blank slot and choose **Earlier VST Plug-ins > Lexicon > Pantheon II**. You will hear the Pantheon II reverb only on the audio track on which it was inserted.

To use the Pantheon II as an insert on FX Channel:

1. Add an FX channel. To do this, go to **Project > Add track > FX Channel**, then click on the **Inserts** tab for the FX Channel.
2. Click in a blank slot and choose **Earlier VST Plug-ins > Lexicon > Pantheon II**.
3. Click the **Sends** tab for any audio track that you would like to affect with reverb.
4. Click in a blank slot and set the output to **FX-1 Pantheon II**.
5. Click on the Power button and set the send level to the desired position. Any number of audio tracks can send signal to the FX channel.

Block Diagram



Specifications

Microphone Inputs:	Female XLR Pin 2 Hot
Input Impedance:	3k Ω balanced
Phantom Power:	+48 Volts
Maximum gain:	+58 dB
E.I.N. (at max gain):	-126 dBu @ 58dB gain typical (150 Ω source) -129 dBu @ 58dB gain typical A-weighted (150 Ω source)
Maximum Input Level:	+14 dBu at minimum gain
Frequency Response:	+0/-1 dB, 20Hz - 20kHz
THD+N:	<0.02%, 20Hz - 20kHz (mic input to main output) <0.015%, 1kHz, -6 dBu input level
Line Inputs:	1/4" TRS balanced or unbalanced
Input Impedance:	20k Ω balanced, 13k Ω unbalanced
Maximum Input Level:	+32 dBu
Frequency Response:	+0/-1.5 dB, 20Hz - 20kHz (reference 1kHz)
THD+N:	<0.05%, 20Hz - 20kHz (line input to main output)
Instrument Input:	1/4" TS unbalanced
Input Impedance:	1M Ω
Maximum Input Level:	+13 dBu
Frequency Response:	+0/-2 dB, 20Hz - 20kHz (instrument input to main output)
THD+N:	<0.05%, 20Hz - 20kHz, +4 dBu
Line Outputs:	1/4" TRS balanced or unbalanced
Level:	>+18 dBu maximum
Impedance:	32 Ω Balanced, 16 Ω Unbalanced
Headphone Output:	1/4" stereo jack 350mW per channel at 50 Ω
MIDI Interface:	5 pin DIN connectors for MIDI in and MIDI out (5 volt signal)
Sample Rate:	44.1, 48, 88.2, or 96 kHz (determined by computer application)
Dynamic Range:	A/D (24 Bit) 108 dB typical, A-weighted, 20Hz - 20kHz (44.1 kHz sample rate) D/A (24 Bit) 110 dB typical, A-weighted, 20Hz - 20kHz A/D/A (24 Bit) 102 dB typical, A-weighted, 20Hz - 20kHz
Power Requirements:	18W 9VAC Power adaptors available for: PSS3-120 (USA) PSS3-EU (Europe) PSS3-UK (United Kingdom) PSS3-JA (Japan) PSS3-AU (Australia)

Lexicon® engineers are constantly working to improve the quality of our products. Specifications are therefore subject to change without notice.



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I-ONIX U42S

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