

## SAFETY SUMMARY

The following general safety precautions must be observed during all phases of operation, service and repair of this instrument. Failure to comply with these precautions, or with specific warnings elsewhere in these instructions violates safety standards of design manufacture and intended use of the instrument. Lexicon assumes no liability for the customer's failure to comply with these requirements.

### GROUND THE INSTRUMENT

To minimize shock hazard the instrument chassis and cabinet must be connected to an electrical ground. The instrument is equipped with a three-conductor AC power cable. The power cable must either be plugged into an approved three-contact electrical outlet or used with a three-contact to two-contact adapter with the grounding wire (green) firmly connected to an electrical ground (safety ground) at the power outlet. The power jack and mating plug of the power cable meet International Electrotechnical Commission (IEC) safety standards.

### DO NOT OPERATE IN AN EXPLOSIVE ATMOSPHERE

Do not operate the instrument in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

### KEEP AWAY FROM LIVE CIRCUITS

Operating personnel must not remove instrument covers. Component replacement and internal adjustments must be made by qualified maintenance personnel. Do not replace components with power cable connected. Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

### DO NOT SERVICE OR ADJUST ALONE

Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

### DO NOT SUBSTITUTE PARTS OR MODIFY INSTRUMENT

Because of the danger of introducing additional hazards, do not install substitute parts or perform any unauthorized modification to the instrument.

### DANGEROUS PROCEDURE WARNINGS

Warnings, such as the example below, precede potentially dangerous procedures throughout this manual. Instructions contained in the warnings must be followed.

## WARNING

**Dangerous voltages, capable of causing death, are present in this instrument. Use extreme caution when handling, testing and adjusting.**

### SAFETY SYMBOLS

General definitions of safety symbols used on equipment or in manuals.



Instruction manual symbol: the product will be marked with this symbol when it is necessary for the user to refer to the instruction manual in order to protect against damage to the instrument.



Indicates dangerous voltage. (Terminals fed from the interior by voltage exceeding 1000 volts must be so marked.)

**WARNING**

The WARNING sign denotes a hazard. It calls attention to a procedure, practice, condition or the like which, if not correctly performed or adhered to, could result in injury or death to personnel.

**CAUTION**

The CAUTION sign denotes a hazard. It calls attention to an operating procedure, practice, condition or the like which, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product.

**NOTE:**

The NOTE sign denotes important information. It calls attention to procedure, practice, condition or the like which is essential to highlight.



**CAUTION**

### Electrostatic Discharge (ESD) Precautions

The following practices minimize possible damage to ICs resulting from electrostatic discharge or improper insertion.

- Keep parts in original containers until ready for use.
- Avoid having plastic, vinyl or styrofoam in the work area.
- Wear an anti-static wrist-strap.
- Discharge personal static before handling devices.
- Remove and insert boards with care.
- When removing boards, handle only by non-conductive surfaces and never touch open-edge connectors except at a static-free workstation.\*
- Minimize handling of ICs.
- Handle each IC by its body.
- Do not slide ICs or boards over any surface.
- Insert ICs with the proper orientation, and watch for bent pins on ICs.
- Use anti-static containers for handling and transport.

\*To make a plastic-laminated workbench anti-static, wash with a solution of Lux liquid detergent, and allow to dry without rinsing.

# Lexicon Studio Installation Instructions

## Hardware and Software Installation Instructions for the LDI-12T Interface, Core-32 and PC-90

Depending on your computer, installation of your Lexicon Studio system should take about 20 minutes. Please read through the entire procedure before performing the installation.

### Precautions

- Turn off and unplug your computer.
- Use the anti-static wrist strap provided with your system and make sure that you are grounded during the entire installation process to prevent static charges that can damage components.
- Put the anti-static bags containing your cards near your computer to avoid walking around with a card after it is removed from its bag (and generating static electricity).
- Before handling any Lexicon Studio cards, discharge any personal static electricity that may be on your clothes or body by touching a grounded metal surface, such as the power supply case inside your computer.
- Handle the cards only by their edges, as you would a CD. Avoid touching the pins on the bottom edge of the cards.
- Save the anti-static bags containing your Core-32 System card and PC-90 module. These prevent static electricity from damaging sensitive electronic components on the cards. Whenever cards are removed from your computer, they should be stored in these bags.

## Hardware Installation

Installation is an easy process, but to avoid problems, please follow these instructions carefully. Pay particular attention to the precautions listed in the safety summary and those which appear throughout these instructions. Any damage caused during installation is not covered under warranty.

### Setup

1. Put on the anti-static wrist strap.
2. Place the foam from your Lexicon Studio package on top of a work surface next to your computer. (Any flat piece of static-safe foam with similar dimensions to the Core-32 card can be used).
3. Make sure that your computer is properly shut down and unplugged.
4. Remove the computer top cover and PCI slot cover(s) for the slots you've chosen for your Lexicon Studio cards. If you do not know how to open your computer, consult your computer owner's manual.
5. Touch the computer power supply case to discharge any personal static electricity.
6. Remove the Core-32 from its anti-static bag, holding the card only by its edges. Be careful to avoid touching the pins on the bottom edge of the card. Place the Core-32 bag on top of the foam and place the card on the foam with the white PC-90 connector facing up as shown below.

### Mount the PC-90 card onto the Core-32 card

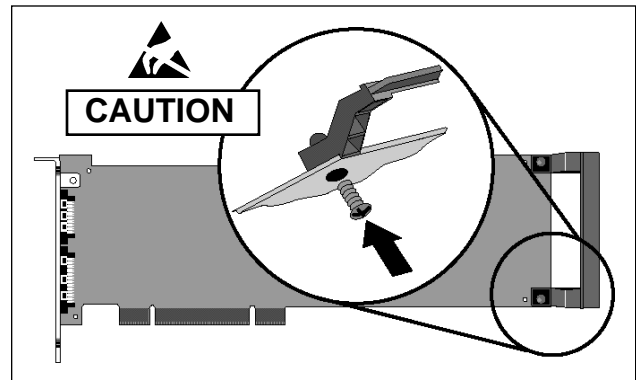
The PC-90 module can only be mounted onto a Lexicon Studio Core-32 system card. Attempting to attach your PC-90 to any other type of PCI card may damage your PC-90 module.

1. Touch the computer power supply case to discharge any personal static.
2. Remove the PC-90 module from its anti-static bag, holding the card only by its edges. Place the bag on your work surface next to your computer and place the PC-90 on it with its white connector facing up.
3. Pick up the PC-90 card and orient it so that the connector side faces away from the palm of your hand.
4. Pick up the Core-32 card in your other hand. Orient the cards with their connector sides facing each other and align the connectors at the top of each card. Firmly press the cards together until they connect fully. The holes on the edges of the Core-32 card should be aligned with the standoffs on the PC-90 card.
5. Once the cards are mated, place the assembly, with the Core-32 card on top, onto the Core-32 anti-static bag. Use the four screws provided to attach the PC-90 to the Core-32 card. Do not overtighten the screws as you may damage the PC board.

### Attach the PCI Extender

The extender provides support for cards installed horizontally and prevents boards from touching each other and shorting. To attach the extender:

1. Holding the Core-32 assembly by its edges, align the holes of the board and the extender.
2. Insert two screws (provided) from the back of the Core-32 card as shown. Do not overtighten the screws, as you may damage the PC board.



### Install the Core-32/PC-90 assembly

The Core-32 System card must be installed in a full-size PCI slot which is a bus master. Refer to your computer owner's manual to determine which slots are available as bus masters. (On some older motherboards, the PCI slot next to the ISA bus connector [the PCI/ISA shared slot] is not a PCI bus master slot.)

1. Touch the computer power supply case to discharge personal static.
2. Pick up the Core-32/PC-90 assembly by the top of the metal bracket and the top of the other end of the card.
3. Align the card assembly over the slot you've chosen and insert it.
4. Place one hand along the top edge of the card and push down firmly until the card is fully seated in the slot. Do not use excessive force.
5. Once the card is fully seated, attach the Core-32 bracket to the computer chassis with the screws provided with your computer. If you are standing the computer up, check to see that boards are not bending and shorting against each other.
6. Replace the cover on the computer. **Do not operate the system without the cover.**

## Connect the LDI-12T Interface to Audio Sources

### Cables/Connections

1. Use only the proprietary Lexicon cable (provided) to connect the Core-32 card to the LDI-12T Interface.
2. With both the computer and the LDI-12T powered down, attach the cable between the lower connector on the back of the Core-32 card and the **Computer** port on the LDI-12T rear panel.
3. Connect the 9V connector to the **AC Power** port on the rear panel of the LDI-12T, and plug the other end into a wall socket.

The LDI-12T supports various formats of analog and digital I/O. Make certain your cables are the correct types prior to connection. (Analog XLR connectors are +4dBu balanced (Pin 2 hot) , analog RCA connectors are -10dBV unbalanced). To select a source for input or output within the application software, refer to the documentation provided with your particular software package

## Software Installation

### Install Supported Third Party Audio Software

Lexicon Studio requires compatible front-end software (such as Cubase Audio VST) to operate. Please refer to your particular software installation guide for assistance. As Lexicon Studio installs software within directories of your front-end software, you should install your audio software first and verify that it launches properly before installing Lexicon Studio (even though it will not be audio-capable until installation of the Lexicon Studio system).

### Install the ASIO Lexicon Studio Driver for Windows 95

1. With the Core-32 assembly installed, power up your computer and your LDI-12T interface. Once your computer is fully booted, Windows 95 will identify a new PCI multimedia device (In the event of booting problems, refer to the troubleshooting section of this manual).
2. Insert Disk 1: Lexicon Studio Drivers. Windows 95 will search the floppy drive for the .inf file. Once this is found, click **Finish**.
3. Restart your computer.

In future versions of the Lexicon Studio drivers, the Installer will remove any prior versions of this software found in your system and place all components as required. Following is a list of files installed and their locations:

File	Location
asiolex.dll	C:\LxStudio
Core32.dll	C:\LxStudio
Coredsp.pci	C:\LxStudio
Corefpga.bin	C:\LxStudio
Corev40.bin	C:\LxStudio
Diagv40.bin	C:\LxStudio
lxstudio.inf	Installs as LexiconStudio.inf within C:\Windows\Inf\Other
Core32.vxd	C:\Windows\System
lexmtc.dr	C:\Windows\System

### Install the PC-90 Software for Windows 95

1. Insert Disk 2: PC-90 Software Disk
2. Open the disk and double-click on **Setup.exe** to launch the Installer.
3. Make certain that the Installer is directed toward the desired plug-in folders (example: c:\.\Cubase Audio VST\vstplugins)
4. Click **Next** to install PC-90 software
5. Click **Finish** to complete the PC-90 software installation.
6. Restart your computer

Installing the PC-90 software will file it within the registry. To remove or update this software, remove the PC-90 install by using the **Add/Remove Programs** control panel, highlighting **PC-90 Install**, and selecting **Remove**. This control panel is located at Start/Settings/Control Panel/Add/Remove Programs.

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