

Open Labs Production Station Manual

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Preface

This Product Manual gives information about the Open Labs production station, as per Generation 4 specifications.

Manual Organization

The chapters in this User Manual are arranged as follows:

- Introduction: information and overviews of an Open Labs production station.
- Getting Started: information on preparing your Open Labs production station for use.
- First time: instructions on what to expect from the software and hardware environment of your Open Labs production station.
- Playing Sounds: instructions on how to use Karsyn to play sounds with your Open Labs production station.
- Recording: instructions on how to record on your Open Labs production station using REAPER.
- MIDI Mapping: information about mFusion, and using mFusion to create MIDI controller assignments.
- MimiK Manual: instructions on how to mimik keyboards/modules and how to play back said mimiked sounds.
- Hardware Maintenance: information regarding the need to make hardware changes.
- Appendix: information about preinstalled software, audio hardware, and sound banks. As well as an appendix for learning the basics of professional audio.

Useful Suggestions

This manual has a fair amount of information, however, from time to time you may not find what you need to know in this manual. Every application that comes with an Open Labs production station has a manual. These are usually in either a .PDF format or HELP file format, and can be located in their "c:\Program Files\Product Name" folder.

Also, Google or Wikipedia are both great resources for finding more detailed information on the application you require assistance with.

Table of Contents

Chapter 1 - Introduction	.6
Open Labs Production Station Components	.7
About the Touchscreen Monitor	.8
Chapter 2 - Getting Started	.9
Unpacking and Setting up your Open Labs Production Station	.9
Connecting the Cables	.9
Rear Panel Layout	10
Audio & MIDI Connections	10
Rear Panel I/O:	10
Front Panel Audio Interface	11
Basic Connection Diagrams	13
Turning on an Open Labs production station	14
About the BIOS	14
About the Open Labs GUI	15
Chapter 3 – First Time1	16
The Open Labs GUI In Detail	16
About the MIDI Controllers	19
Master Control	19
DJ/VJ Controller	19
The Track Pad, Keyboard, and Special Keys	20
Using USB Devices	21
Using DVD/CD-RW Drive	21
Using the Internet	22
Adding Software to your Open Labs Production Station	22
New Software Installation Considerations	23
Chapter 4 - Quickstart	24
Three Steps to Playing Sounds on an Open Labs Production Station	24
Master Panel for Play Sounds	25
Chapter 5 - Playing Sounds - Karsyn	26
Key Features	20
Cutrut Dueses	27
Adding and Deleting Output Russes	27 20
Adding and Deleting Output Busses	20 20
Adding and Deleting Instrument Medules	20 20
Instrument Consolo	20 20
Docking and Electing the Instrument Console	29 20
Adding and Pemoving Effects	29 20
Advanced Performance Recovery	20 20
Preferences	30
MIDI Input Ports	30
Remapping or Disabling MIDI Program Changes	30
Key Range and Transpose	30

	Channel Map	.31
	Continuous Controller Map	.31
	Toggle Mode	.32
	Saving and Loading MIDI Configurations	.32
	Setting a Default MIDI Configuration	.33
	Insert Manager	.33
	Showing Effects Consoles	.33
	Using Effect Presets	.33
	Insert Effect Automation using MIDI Continuous Controllers	.33
	Working with Presets	.34
	Creating Presets	.34
	Changing Presets from the Control Module	.35
	Changing Presets from the OWERTY Keyboard	.35
Cł	napter 6 – Recording - REAPER	.36
	Recording with an Open Labs Production Station	.36
	New to Recording?	.36
	Opening RFAPER for the First Time	.37
	Inserting and Using a VSTi	.38
	Setting VSTi Preferences	.38
	VST Plug-in Settings	.38
	Setting up a Virtual Instrument.	.41
	Setting up Recording	.42
	Setting up Track Input	.43
	Recording in REAPER with a VSTi	.47
	Master Panel Lavout	.47
	Recording	.48
	Enable Metronome	.49
	Looping	.50
	Mixing	.52
	Importing Existing Tracks	.52
	Rendering	.52
	Exporting Tracks	.53
Cł	napter 7 – MIDI Mapping - mFusion™	.57
	Mapping MIDI Controllers	.57
	About this Chapter	.57
	Maps	.57
	Presets	.57
	Control Panel Overview	.58
	Preset List	.58
	Preset menu	.58
	Options	.59
	MIDI In	.59
	MIDI Out	.59
	General	.59
	Virtual Controls	.59
	Panel View and Control Editor	.59
	Control Types	.60
	Button Control Settings	.60

MIDI Control	60
Keystroke	60
App Launch	60
Map Change	60
Transpose	61
Program Change	61
MIDI Note	61
Fader Control Settings	61
Encoder Control Settings	62
Control Panel Types	63
Miko Master Control	63
DJ/VJ Controller	63
Keyboard Range Map	63
Chapter 8 – MimiK Users Guide	65
What is MimiK?	65
MimiK Suggested Usage	65
What is a Preset and a Bank?	65
SFZ Format	65
How to Physically Set Up MimiK	66
Wiring Diagram	66
Setting up MimiK	67
Mimik Features Guide	69
Main Window	69
Options Window	69
MimiK Tutorial (Quick Start)	72
How to Playback a Sound after using MimiK	73
Translator	73
Proteus	76
Chapter 9 – Hardware Maintenance	80
Please Read	80
New Hardware Installation Considerations	80
Opening your Open Labs Production Station	80
Appendix A - Bundled Software	82
Appendix B - Audio Interface Control Panel	88
Appendix C - Sound Presets	93
VST Instruments	93
VST Effects	95
General Sound Libraries	97
Appendix D – Pro Audio Basics	110
Appendix E – Making Adjustments	122
Calibrating the Touchscreen	.122
Adding a Second Display	.124
Adding a New Program to Launch from the Open Labs Shell	.126

Chapter 1 - Introduction

Open Labs creates the ultimate performance and studio instruments. Based on the OpenSynth[™] platform, Open Labs production stations free you from frustrating limitations imposed by closed, proprietary systems, while still maintaining the virtues of an all in one keyboard instrument.

Open Sounds: Open Labs production stations can emulate almost any instrument ever invented by hosting industry standard VSTi software synthesizers, samplers, and audio processing plug-ins.

Open System: Open Labs production stations utilize industry standard motherboards and processors that allow you to run standard operating systems (such as Microsoft Windows), and use standard PC-compatible hardware.

All in One: Open Labs production stations all in one design eliminates the clutter and confusion of traditional desktop computer systems, so you can focus on your music.

User Friendly: Open Labs production stations enable you to change settings and access programs through an easy-to-use interface that shields you from the complexities of the operating system.

Power to Rock: Open Labs production stations can accommodate the fastest processors available, more RAM, and more storage than any other music workstation.

Low Latency: Open Labs production stations give you near-zero latency even under high processor loads.

Versatility: Open Labs production stations are so versatile, that they can run virtually any plug-in or application designed for the Windows XP operating system, including products from Steinberg, Native Instruments, IK Multimedia and many others!

Bring It!: Equipped with PCI/PCI-E slots that can accept up to full size cards, Open Labs production stations can accommodate your favorite Creamware. TC, and, Universal Audio cards, providing unsurpassed power. Open Labs production stations also features PCI-Express (PCIEX1) slots, offering even greater expansion potential.

Modern Art: With a sleek, modern design incorporating an aluminum chassis, Open Labs production stations are as beautiful as they are powerful.

Surfboard: An ethernet port allows you to directly access the Internet, and to quickly and easily download upgrades, sounds, and applications.

The versatility to grow and adapt to every musician's needs is why Open Labs production stations are unique. Extreme care should be taken when installing new

hardware and software. Installing the wrong components could cause great instability to your Open Labs production station. Read Chapter 4 before installing any new devices or software.

Open Labs Production Station Components

DVD/CDRW Drive

Open Labs production stations come standard with a DVD/CD-writer, so that you may use it as a backup device, or to create audio CDs of your music. The DVD/CDRW drive can also be used to play CDs, DVDs, or install software.

Hard Drive

The hard drive is the main physical storage device for all your data and applications. Because hard drives are delicate devices, always treat them with care.

Power Button/Reset Button

The power switch and reset button are located in the recessed area on the right side of the keyboard.

Audio Interface

Open Labs production stations include a mutichannel audio interface. Please refer to Chapter 2 for information about the specific audio input/output features of your Open Labs production station.

USB Ports (2)

Two rear USB ports allow connections to USB devices.

Internal USB Port

All Open Labs production stations have at least one unused USB port located inside the chassis. This is ideal for USB software protection devices.

Monitor Port

The monitor port allows you to connect any monitor with a standard VGA connector to your Open Labs production station.

Ethernet 10/1000

The Ethernet port will accept a single high-speed cable connection. This will allow you to share files, print, and access the Internet.

DIMM Expansion Slots

If your Open Labs production station is currently fitted with less than 4GB of RAM, you can install additional memory. Open Labs production stations support 240-pin, DDR2 DIMMs. Call technical support for details about expanding an Open Labs production station's memory capacity.

PCI/PCI-E Expansion Slots

PCI and PCI-Express slots are for adding additional hardware boards such as I/O

cards, DSP cards, or additional graphics boards. Add-in boards should all be Microsoft Windows XP compatible. If you are unsure, please call Open Labs technical support.

Performance Controllers

An Open Labs production station's top panel contains a variety of faders, knobs, buttons, and a DJ A/B fader. All of these may be mapped to control the functions of various applications, instruments, sequencing software, etc.

Touchscreen Monitor

Open Labs production stations comes with a touchscreen monitor. The touchscreen can be accessed using your fingertips, or a plastic stylus. The touchscreen provides an alternative method of inputting commands. It can be used by itself as the sole source of command input, or it can be used in conjunction with the built-in keyboard and track pad, or a standard keyboard and mouse.

About the Touchscreen Monitor

Here are a few techniques that will help you get the most out of the touchscreen:

Rather than using the flat portion of your finger, use your fingernail. By using your nail, you make contact with a smaller portion of your finger and get greater accuracy.

To have a "right-click" effect with your finger, tap and hold down on the screen with your finger. In a moment, the right-click options will pop up for you.

For fine details, use the supplied touchpad. Either use a finger on the touchpad with a thumb on the left button for clicking, or use two hands.

2

Chapter 2 - Getting Started

Unpacking and Setting up your Open Labs Production Station

The first time you open the box, you should ensure that all the parts are enclosed. Because each Open Labs production station may be customized with different options, you should validate its contents with your order. Ensure that all components are included and that none of them were damaged during shipping.

Select a flat tabletop near a stable power source, preferably one that is surgeprotected, or an uninterrupted power supply (UPS) to unpack your Open Labs production station. Network availability is also a plus, especially if you plan to transfer work through a local area network (LAN).

Please note:

1) Open Labs production stations have cooling vents on the back panel and on the underneath the chassis. Make sure that none of these vents are obstructed.

2) There should be ample room on the left side of your Open Labs production stations to allow for the DVD/CD-ROM tray to eject without obstruction.

Connecting the Cables

Open Labs production stations contain all the common interfaces you would find on a computer workstation. On the back panel you will find two USB ports, one VGA-monitor port, Ethernet port (10/1000), Firewire 400, PS/2 keyboard, the audio I/O connectors, MIDI I/O and pedal inputs.

Before powering the Open Labs production station:

1) Connect your Open Labs production station's audio outputs to your monitoring system.

2) Connect to your Open Labs production station any external items you plan to use, such as USB devices, an external video monitor, additional MIDI-equipped devices, sustain pedal, etc.

Rear Panel Layout

On an Open Labs production station's back panel you will find:



- 1. VGA monitor out port
- 2. Switches for the power supply (some systems may have auto voltage switching)
- 3. Firewire 400 port
- 4. Ethernet (10/100/1000)
- 5. Two USB ports
- 6. PS/2 keyboard connector
- 7. Audio/MIDI I/O panel

Audio & MIDI Connections

Open Labs production station's back panel provides six analog outputs, two analog inputs, stereo S/PDIF digital I/O, and MIDI I/O. An additional coaxial digital output is located to the left of the stereo S/PDIF I/O connectors. This output can be used to send stereo or multi-channel (up to 7.1) audio to an external decoder, typically the digital audio inputs of a home theater system.

Rear Panel I/O:



See the end of this chapter for examples of connections to the various inputs and outputs.

Front Panel Audio Interface

There is also an audio interface located on the front of Open Labs production station, providing two more audio inputs and an output for headphones.



The two inputs on this panel serve as preamps for either microphones or instruments (as opposed to the rear panel inputs, which are appropriate for line-level signals). Phantom power may be turned on for use with condensor mics.

Both of the inputs utilize the Neutrik Combo connector, which lets you use either 1/4" phone or XLR connectors.

The 1/4" connectors are for use with an instrument (guitar, bass, etc.). When an instrument is plugged into the instrument input, the microphone preamplifier is bypassed and the interface becomes an active instrument preamplifier.

Note: Active instruments are those that have an internal preamp or a line level output. Active instruments should be plugged into a line input (located on the back) rather than into an instrument input. In other words, don't plug an active instrument into the combo jacks on channels 1 or 2.

48-volt Phantom Power

Pressing this button will send phantom power to the mic inputs. When on, the button will light up.

Input Gain Control

Each channel has an input gain control knob and associated clip light. The following gain structure is provided for each channel:

Microphone Input XLR: 45dB of variable gain (+14dB to +55dB)

Instrument HiZ Input TS 1/4": 45dB variable gain (+8dB to +50dB)

Clip Indicator: The clip indicator will light up if your input signal from the XLR (Mic) or ¼" (line) reaches +18dBu (0dBfs). At this level, your mic preamp/line trim signal may not exhibit signs of clipping such as distortion. However, this level will cause the A/D (analog to digital) converters to clip. Therefore, it is highly recommended that you do not allow your converters to clip (the clip indicators to light up) as the sound quality will not be desirable.

Main Level: This knob allows control over the output level. It has a range of -80db to +10dB.

Headphone 1/4" Jack: This is where you connect your headphones.

Phones Knob: The phones knob controls the amount of volume going to the headphone output on the front of the unit. Notice the volume indicator goes to 11 (loud). *Use this setting with caution*.

Red-Blue Power/Sync Light: This light is a clock (sync) indicator. It lets you know if your unit is receiving wordclock correctly. Wordclock is the manner by which digital devices sync frame rates. Proper wordclock sync prevents digital devices from having pops, clicks, or distortion in the audio signal (due to mismatched digital audio transmission).

- Blue solid sync
- Red sync not present.
- Flashing Red and Blue external sync not present

Basic Connection Diagrams



The following picture shows examples of the rear audio and MIDI connections.

The following picture shows examples of the front audio connections.



Turning on an Open Labs production station

There are two power switches on an Open Labs production station. One is located on back of the power supply and the main power switch is located on the right side of the Open Labs production station within the end bezel.

Please note carefully:

Be sure your Open Labs production station power supply is configured for the proper voltage. You can set the voltage via the switch on the power supply (rear panel). If you are unsure what the setting should be, *please contact technical support at Open Labs before attempting to power up your Open Labs production station*.

The power supply also has a switch labeled "H" for High, "L" for Low, and "A" for Auto. This switch will adjust the fan speeds of the power supply. As a default it should be set to Auto.

Upon powering up, the Open Labs production station will boot up in two phases: The first phase is the BIOS phase, or the pre-Microsoft Windows phase. This is when the hardware validates that all systems are functional within acceptable parameters. PCI devices, onboard memory, and other system devices run through a short diagnostic routine, and then the system will begin to load the operating system—Microsoft Windows XP. *It is normal for the BIOS screen to load upside down on your display. Once Windows XP loads, the screen will rotate to the correct orientation*.

Unless you plan to make immediate hardware changes, there is no need to access any of the BIOS configuration menus. If you do plan to make some BIOS modifications, you can access the BIOS by hitting the DELETE key when your Open Labs production station first boots.

About the BIOS

System BIOS is a menu where you can configure your hardware settings. The settings pertain to hardware only, and will sometimes affect your software programs if configured incorrectly. If you plan to make modifications to the BIOS, it is recommended that you read the motherboard manual which is provided with your system. This manual contains all the configuration options supported by your Open Labs production station.

The second phase loads Microsoft Windows XP. This is an optimized installation of Windows XP, meaning that it contains all the tweaks that will enhance system performance. Since this is the "Full Version" rather than the "Embedded" version of the Windows package, your Open Labs production station has all the potential to be your most powerful sound production appliance without any hindrance to any computer-driven applications. Any software supported under the Microsoft Windows XP platform will be supported by your Open Labs production station. After the system is fully booted, you should be in the Open Labs Graphical User Interface (GUI).

About the Open Labs GUI

The Open Labs GUI is not a standard part of Microsoft Windows XP. It is a customizable overlay to the standard Microsoft XP work environment. You can toggle between the two modes by clicking on the Open Labs icon (located in the lower left-hand corner of the screen), select Util, and then select Go To Windows. You can always reinstate the Open Labs GUI by accessing the shortcut (named "Open Labs Shell") provided on the desktop.

For more information about the Open Labs GUI, see chapter 3.

Chapter 3 – First Time

The first time you power up your Open Labs production station you may realize that the screen looks nothing like Microsoft Windows XP. The new look is the Open Labs Graphical User Interface that will enhance your productivity, especially in combination with the touchscreen.

The Open Labs GUI In Detail

The GUI, or graphical user interface, is a customizable shell that allows the launching of applications from a single location. This GUI is optimized for use with a touchscreen and for musical performance. Traditionally, within the Microsoft Windows environment, you would have to make shortcuts for applications you use most often, and arrange them on your desktop or system tray for easy access. Because these items are often masked by open applications and windows, you may have to reposition your windows every time you wish to initiate a new application. Starting programs via the 'Start' button is also not ideal, because the program groups contain all installed programs, rather than just those few applications you use the most.

The Open Labs GUI is designed to allow access to the programs and tasks that you will use most frequently with your Open Labs production station. After powering up your Open Labs production station, Windows XP will launch, followed by the Open Labs GUI. You will notice right away how the GUI organizes and simplifies the tasks associated with making music.

Currently active applications will appear on the taskbar. If there are more applications open than will fit in the taskbar at once, you can scroll left and right using the arrows in the lower right-hand corner of the screen.

Clicking on the Open Labs icon in the lower left-hand corner will reveal shortcuts to a variety of applications and files.

The picture below shows the first level of buttons displayed when you click the Open Labs icon. It also shows the icon for an open application (in this case, Windows Explorer).



Starting from the bottom, the icons will be explained.

QUIT

Clicking on this button will give you the following options:

Machine Shut Down: Use this to turn your Open Labs production station off **Restart**: Use this to restart your Open Labs production station.

UTIL

The Util button provides access to utilities that you might need while working on your Open Labs production station. When you click on the Util button, you will see the following options:

File Nav: This is a touchscreen friendly file browser. To launch a file or program, or to navigate into a directory, you will need to left click the icon to the left of the file/directory name. Double clicking is not required.

Search: Click on the search icon to search for files on your hard disk(s).

On-Screen Keyboard (OSK): This button will display a graphical representation of a standard computer keyboard for touchscreen entry of alphanumeric input.

SysRestore: This button will launch the Windows XP backup utility. Use this periodically to back up your data.

Touchscreen Options: Use to calibrate your touchscreen and display settings.

About: Shows information about the Open Labs Graphical User Interface.

Files: The Files button is a user-defined menu button. It is a default shortcut to the data partition on your hard drive.

Go To Windows: This button will close the Open Labs GUI and take you to the standard Windows XP desktop.

Help

The **Help** button gives you access to various forms of information regarding your Open Labs production station. When you click the Help button you will see the following options:

Tutorial Videos: You will find video tutorials that will help you make recordings and play sounds.

Manuals: Will take you to a folder containing user guides and manuals.

Remote support (Requires an Internet connection): Clicking this will take you to a website where an Open Labs technician can log into your production station and provide you with technical assistance, and online tutorials. Please call Open Labs tech support to schedule a remote support session. 512.444.6222.

Open Labs Forum (Requires an Internet connection): To gain access to the Open Labs on line community, and technical support forums use this link: (http://forum.openlabs.com).

Forum access requires registration.

Apps

The Apps button is a way to access various programs installed on your Open Labs production station. When you click the Apps button you will see the following options:

Play Media: This button launches Windows Media Player, for the playback of media files.

Burn CD-DVD: Launches a CD/DVD burning program.

Internet: Launches the Firefox browser for gaining access to web pages.

Audio

The **Audio** button directs the controls for your sound card. When you click the Audio button you will see the following options:

Control Panel: Launches the sound card control panel, from here you can adjust latency, sample rate, and boost input volume.

Mixer: This button launches the sound card mixer panel.

MIDI

Launches the mFusion Control Panel. See Chapter 6 for information about using mFusion.

MimiK Keyboard

Launches the MimiK Keyboard cloning software. For information on using MimiK, refer to Chapter 8.

Record/Sequence

This button will launch the MIDI/audio sequencer bundled with your Open Labs

production station, which REAPER. For information about using Reaper see Chapter 4.

Play Sounds

This button displays a list of sounds. Selecting one of the sounds launches either Proteus X or Karsyn and loads the desired sound.

About the MIDI Controllers

Open Labs production stations offer the following control surfaces:

- Master Control (faders and buttons)
- DJ/VJ Controller (A/B crossfader, buttons)

Both of these are actually programmable MIDI control surfaces. Open Labs production stations ship with MIDI control maps for use with the installed applications (Karsyn, REAPER, and so on), but you can also create your own custom maps to use with any MIDI application. See Chapter 4 for information about using mFusion to create and edit MIDI control maps.

Master Control



The master control panel contains 18 buttons and five sliders. The buttons are all freely assignable, but have been designed and labeled to support specific system operations and software functions.

DJ/VJ Controller



The DJ/VJ controller contains 12 buttons, one A-B crossfader, and 7 knobs. The buttons are all freely assignable, but have been designed and labeled to support specific system operations and software function.

The Track Pad, Keyboard, and Special Keys

The Open Labs production station keyboard is no different than the standard computer QWERTY keyboard. Additionally, you can use an external keyboard. The Open Labs production station keyboard has a "windows" key located between the Ctrl and Alt button to the left of the spacebar. The Windows key allows immediate access to the Microsoft Windows Start Menu. From the Start Menu, you can launch all your applications, configure settings, and browse for data or shutdown your Open Labs production station.

Your track pad has two main buttons: left and right. The left track pad button is mostly used to select objects, or to launch programs. The right track pad button is used to call up auxiliary menus and properties of objects.

In general, to access or launch an application, double-click the left track pad button while the track pad pointer is hovering over the desired icon.

To move an object from one folder to another, or to reposition onscreen icons, you can move these objects by dragging. To drag an object, position your track pad pointer over the icon, press and hold down the left mouse button, then move the object to its new location. When you release the left track pad button, your object or icon will be placed in its new location. Dragging does not always work, and it may be disabled by the program that you are using.

You can also select multiple items by grouping them using the left track pad button. When you position the pointer over an empty area on your desktop, you can hold down the left track pad button and proceed to drag a rectangle over several objects. Releasing the left track pad button will highlight all objects or icons within the area of the rectangle created by dragging the pointer. Selecting multiple objects allows you to move and assign attributes to all the objects at once rather than doing each one individually. For example, you may wish to delete four files in your music folder. You can use this method to select the four items and then hit the DELETE key on your keyboard to send these items to the recycle bin.

In Microsoft Windows XP, one of the most popular keystrokes is the Control-Alt-Delete command. Press the Control, Alt, and Delete key simultaneously, and you will invoke the Windows Task Manager. Windows Task Manager allows you to restart your computer or quit applications that are either not running, or locked. Anytime your system is experiencing problems, it is always a good idea to Control-Alt-Delete to see whether the application in question is 'not responding'. If it isn't responding, you can highlight the application, and press the 'end task' button. This will allow you to restart the application from scratch.

Other important keystrokes recognized in the Windows XP environment are the function keys, labeled F1 to F12. The function keys are used by your applications, and may have different functions from one program to the next. The function keys serve as shortcuts (sometimes called quick-keys) to open menus, execute commands, or

toggle settings.

Using USB Devices

The Open Labs production station comes with two USB ports on the back panel. If you require more USB ports, you can purchase a USB hub. Typically, USB devices also require you to have Windows XP USB drivers in order for the device to work properly in Microsoft Windows. The drivers are provided by your USB device manufacturer, and can be downloaded from their support site on the Internet.

Using DVD/CD-RW Drive

The DVD/CD-RW drive can be opened by pressing the release button located below the ejection tray. Because Microsoft Windows supports bootable CDs, it is important that you do not leave any CDs that are bootable in the DVD/CD-RW drive so that you will not boot the CD accidentally.

Adding CDs into the CD-RW Drive while the Open Labs production station is running will sometimes initiate pop-up menus. This depends on how the CD was written. For example, typical software installation CDs have pop-up menus to assist in installation of its software when the CD is first inserted into the DVD/CD-RW drive. Alternatively, inserting an audio CD into the DVD/CD-RW drive will initiate CD-Player to play.

The CD drive can be used to burn files onto blank recordable CDs. Recordable CDs are sold at most computer stores and provide an inexpensive method of backing up your critical files.

You may use any number of programs to burn CDs with your DVD/CD-RW drive. Microsoft Windows XP will author CDs as well. To use the Microsoft tool, navigate to the "Start" button, and then double-click on My Computer.

Double-clicking on My Computer will open a window showing all your storage devices. Insert a black recordable CD (CD-R) into your DVD/CD-RW drive and your DVD/CD-RW drive icon should change to indicate the presence of a CD-R disc.

Double-clicking on this icon will open an empty window that is empty except for a legend to the left.

Using the drag-and-drop method, you can place multiple files into the empty area within the right pane of this window. Files should start to populate this empty area. Keep in mind that the maximum amount of data you can store on a single CD-R is approximately 700 MB, or 80 minutes of audio wav files.

When you are done, select: "Write these files to CD".

Another pop-up will appear and will provide a walk-through with step-by-step instructions to complete your CD. These step-by-step pop-ups are called wizards. Microsoft loves to use wizards, and you will encounter many wizards while using Windows XP.

Simply follow the Wizard to the end and your CD will be finished.

Using the Internet

The network adapter allows you to connect a high-speed network to your Open Labs production station. Depending on your setup, the network could be local area only (just connects to other computers around you) or to the Internet. Open Labs production stations will support a 10 Mbits or 1000 Mbits network.

Anytime you connect to the Internet, it is vital that you use the same precautions as you would use with a normal computer. It is recommended that you keep Internet activities to a minimum to reduce risks of computer viruses, hackers, pop-ups, and other vulnerabilities inherent on the Internet.

Internet use for the Open Labs production station should be restricted to the following:

- Connection to Microsoft to run updates of service packs. (Please check with Open Labs support for compatibility of Microsoft updates).
- Technical support with Open Labs.
- Updating virus definitions for your anti-virus protection.
- Collaboration with other musicians in sharing of music.
- Network printing and local file sharing.

Adding Software to your Open Labs Production Station

Adding new software to your Open Labs production station is not unlike adding software to your home computer. The process still requires that you have the software, either on a CD ROM or resident on your hard drive from an Internet download. System requirements of your Open Labs production station should meet that of your software, or installation will fail. For example, you cannot install Macintosh software in a Open Labs production station, or install Windows 98 compliant software. Your Open Labs production station runs Microsoft Windows XP, and will only accept software that works on this platform.

As a guideline, most current software sold at your music supplier will work on a Open Labs production station. It is only with older software applications that you should practice caution during installation. If you are uncertain whether software applications will work in the Microsoft Windows XP environment, please contact your software manufacturer.

Instructions for installing software are provided in the software package you wish to install. Please read the software's user guide for step-by-step instructions, or visit its website for support.

Be aware that there may be compatibility issues with some third party software. Your Open Labs production station is extremely stable with the software installed as shipped. Open Labs does not recommend installing untested freeware, shareware or firmware to your Open Labs production station. For questions about particular software products, please contact Open Labs support, or the software manufacturer.

New Software Installation Considerations

If you plan to add your own software, be sure you meet all the following criteria:

The software you wish to install is compatible with Microsoft Windows XP.

The software does not conflict with software that is already on your system. An example of this is having two brands of anti-virus software running at the same time.

The software you are installing has support. Open Labs does not support software that is not part of the factory installation.

Your Open Labs production station meets or exceeds the recommended system requirements of the software you wish to install.

Also ensure that you have the necessary disk space needed to install the program.

System Recovery

Should you install an incompatible program that compromises the stability of your Open Labs production station, a hidden recovery partition has been set up for a complete system recovery. Call or email an Open Labs technician before attempting a system recovery. An Open Labs technician can be reached by calling (512) 444-6222, or by emailing support@openlabs.com.



Three Steps to Playing Sounds on an Open Labs Production Station.

- 1. Select the 'Open Labs" icon in the lower left corner of the screen
- 2. Select the "Play Sounds" button.
- 3. Select a preset sound library.

This loads default instruments and banks from either the Proteus-X sample player, or the live VSTi host, Karsyn.

For further info on using Karsyn, please consult Chapter 5.



For more information on Proteus, please refer to the Proteus-X manual located in: *c*:*Program Files**Creative Professional**Proteus X**Documents*

The above screen shows what you will see once you press the Play Sounds button. The sound sets will differ depending on the type of Open Labs production station you own.

While playing sounds in this mode, you may want to transpose - or change – presets. The following diagram shows you the basic controls of the master panel.



Master Panel for Play Sounds

- 1. Transpose Reset
- 2. Transpose Up +12
- 3. Transpose Down -12
- 4. Patch Change Down -1
- 5. Patch Change Reset to 0
- 6. Patch Change Up +1



Chapter 5 - Playing Sounds - Karsyn

Karsyn is a live performance work station software application for virtual instruments. The software is based on the product Forte by Brainspawn, Inc. Open Labs has modified the interface, and updated the design to support touchscreen users. Karsyn is designed for musicians transitioning from hardware rack-mount rigs, and uses the concept of stackable horizontal modules. The modules consist of a control module, output busses for controlling access to audio device outputs, and instrument modules for controlling sound sources.

This document contains basic information to get you started using Karsyn. For additional information, you can view the complete documentation for Forte at: www.brainspawn.com. You can find the complete Karsyn manual by navigating to: c:\ Program Files\OpenLabs\Karsyn\User Manual

Key Features

Low Latency Multiple Instrument Hosting – Play up to 32 virtual instruments live with mixing and routing to multiple audio outputs.

Performance Automation – Reconfigure virtual instruments and MIDI routing instantly with remote controlled presets.

Advanced MIDI Routing and Filtering – Independent routing and filtering per MIDI input port; MIDI control of audio effect plug-ins and MIDI clock tempo synchronization.

Audio Effects – Add audio effects to audio inputs, instruments, or audio buss outputs.

Audio Thru – Process live audio input through audio effects with very low latency.

Virtual Set List – Presets View displays the set of upcoming configurations in full screen view.

Performance Features – Auto - start on boot up, auto-recovery, remote control, Presets View and other features eliminate keyboard and mouse use during a performance.

Karsyn's Control Module

Though you can find Karsyn under the "Play Sounds" menu, you may want to open Karsyn directly. To do so:

- 1. Select the "Open Labs" icon in the lower left corner of the screen
- 2. Select the "Util" button.
- 3. Select "Go to Windows". The Open Labs shell will close.
- 4. You will find a Karsyn icon on the desktop. Double left-click to launch it.

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Start/Stop Panic	Add	Delete	Сору	edit	<none></none>		Karsyn
₹			Bu	155 1	Karsyn Buss Module	*···	>

- 1. Control Module
- 2. Output Bus
- 3. Instrument Module

The top rack space is the Control Module. On the Control Module you can:

- Load and save racks
- Add, remove, duplicate, and hide output busses
- Create and manage presets
- Configure program options
- Rename plug-ins (open the Add Module menu and right-click to rename)
- View CPU utilization
- MIDI Panic

Output Busses

On each buss you can:

Open Labs Production Station Manual

- View audio levels going into the audio output device (post buss effects) with the peak level LED
- Change the volume of all audio routed to the buss with the buss volume fader (post buss effects)
- Add, remove or reorder VST and DirectX audio effects
- Display the console for each VST and DirectX audio effect
- Select an audio output device

Adding and Deleting Output Busses

Adding an output buss can be accomplished in several ways:

- Select File>New>Bus menu
- Press [CTRL] + [INSERT] on your keyboard
- Right-click on the Control Module or a Module and selecting [Add Audio Output Buss]
- Press the Buss [Add] button on the Control Module

To delete the selected output buss, as indicated by the selection caret, press [DELETE] on your keyboard, the buss [minus] button on the Control Module, or right-click on the output buss and select [Remove].

Instrument Modules

Below the output busses are the instrument modules. Each contains one VSTi or DXi instrument. On each module you can:

- Adjust the volume of the instrument output (post effects)
- View MIDI input activity
- Display or hide the console for the instrument
- Mute or Solo the module
- Add, remove, or reorder audio effects
- Display the console for audio effects
- Select an output buss

Adding and Deleting Instrument Modules

Adding an Instrument Module can be accomplished in several ways:

• Select the File>New>Module menu item

- Press the [INSERT] key on your keyboard
- Right-click on the Control Module or a Module and select [Add Module...]
- Press the Module [Add] button on the Control Module

To delete an Instrument Module, as indicated by the selection caret, press [DELETE] on your keyboard, the module [minus] button on the Control Module, or right-click on the instrument module and select [Remove].

Instrument Console

Each instrument has its own user interface called a "console". Consoles can be either displayed or hidden.

Docking and Floating the Instrument Console

The console may either be docked (embedded in the window below the instrument module strip) or floating (shown in a separate window).

To float a docked console, double-click on the docking handle or single-click on the float button at the top left of the console window.

To dock a floating window, double-click on the title bar of the console window.

More information on this subject can be found by viewing page 23 of the Karsyn users manual.

Adding and Removing Effects

VST and DirectX audio effects may be inserted into either modules or output busses.

To insert an effect, right-click on an audio effects patch point and select the DirectX effect from the pop-up menu.

To delete an effect, right-click on the effect you wish to remove and select 'Remove Audio Effect' on the pop-up menu.

You can use the up/down arrows on the right to view different effects in the chain.

By right-clicking and opening the insert menu, you may right-click on an effect and add it to your favorites, rename it, or hide it.

Working with Audio Inputs

Audio inputs allow you to run audio through modules and busses. They are available on any instrument module in the Audio Input Configuration tab of the console.

You may select the stereo audio input source and monitor the input levels. Select "No Audio Input" from the input selection box to turn off audio input.

Although some instruments will process audio input, most will not. For this reason, there is a special module you can create from the Add Module menus called

'Brainspawn Audio Input'. This is a module without an instrument. In the Audio Input module, the audio is sent directly from the input to the module's insert effects.

Advanced Performance Recovery

Advanced Performance Recovery (APR) is a performance feature designed to provide Karsyn some additional resilience in a live situation.

Preferences

You can change Karsyn's preferences by selecting Options>Preferences from the menu bar or by right-clicking on the Control Module and selecting "Preferences."

MIDI Input Ports

Enable/Disable MIDI Input Ports – Use this list to enable or disable MIDI input ports for use in Karsyn. If an input port is not checked in this list, it will not be opened for input and it will not be included in the MIDI Configurations list.

Leave MIDI Ports Open – If checked, Karsyn will open MIDI input ports when started but will not close them when the rack power is turned off. It will always close ports when exiting. When un-checked, input ports will be closed when rack power is turned off.

Remapping or Disabling MIDI Program Changes

Incoming MIDI Program Changes may be optionally remapped or disabled. If remapping is on, the program change is remapped to a configurable list of presets. If remapping is off, the program change is sent directly to the instrument which may or may not respond by changing its internal preset. The list can be of any length, up to 128 entries.

Additionally, MIDI program changes can be ignored. When checked, program change messages are not remapped or passed to the instrument.

Key Range and Transpose

Refer to page 29 of the Karsyn manual for much more detailed information on key ranges and transposing.

You may configure an instrument to respond to only a subset of the entire 128-note MIDI keyboard. To do this, click the mouse anywhere within the keyboard graphic. The disabled upper and lower ranges will be displayed in gray. You may change the upper and lower ranges a note at a time by clicking the up/down arrow buttons for each.

Training is a convenient way to automatically set the upper and lower ranges. Press [Train] and a message will show "Training...". Now simply press two notes

(simultaneously or one after another) on your MIDI input device. The instrument module must not be muted, and the rack power must be on for the training to succeed.

The MIDI keys that lie within the enabled range are then transposed by the amount shown in the transpose box.

Press [Reset] to enable the entire keyboard.

Key Range and Transpose are MIDI input port-specific. You will have as many ranges and transpose settings as you have input ports. Highlight the input port at the left to display and change the configuration on the right.

Channel Map

Incoming MIDI data, such as notes or controllers that are "per-channel," may be remapped to a different channel or disabled. Remapping can be useful if the instrument supports only certain channels (e.g. only channel 1) or if you wish to do complex routing of multiple MIDI input devices. Disabling can be useful if you have one controller split between multiple instruments. The list contains each remap entry up to 16 with a "from" and a "to" column. The list will only display entries that are remapped to different channels. Any channel not listed in the "from" column is not remapped.

To add a remap entry, press [New]. To delete a remap entry, highlight the entry in the list and press [Delete].

Training is a convenient way to automatically set the "From" field without having to consult your MIDI controller configuration. Select a "From" field, press "Train" and the field will change to "Training..." Now simply press a note or change a controller on your MIDI input device, and the field will automatically change to the channel of the MIDI data you sent. You must manually select the "To" field. The Instrument Module must not be muted, and the rack power must be on for training to succeed. If the "Auto-Train" button is on when "New" is pressed, training will be started automatically.

If you manually configure a remap entry so that "From" and "To" fields are identical, the entry will not remain in the list if you close and re-show the console.

Channel remap is MIDI input port-specific. You will have as many channel maps as you have input ports. Highlight the input port at the left to display and change the map on the right.

Continuous Controller Map

Incoming MIDI continuous controller data may be remapped to a different controller number or disabled. They can also be configured to toggle the instrument's controller value. This can be useful to remap. For example, your foot-pedal MIDI input to B4's Leslie speed so that one tap slows Leslie and a second tap speeds it up. The list contains each remap entry up to 128 with a "From" and a "To" column, along with a "Toggle" checkbox. The list will only display entries that are remapped to different controllers or configured to toggle. Any controller not listed in the "From" column is not remapped and toggle is disabled. Any disabled controllers will not be passed to the instrument.

To add a remap entry, press [New]. To delete a remap entry, highlight the entry in the list and press [Delete].

Training is a convenient way to automatically set the "From" field without having to consult your MIDI controller configuration. Select a "From" field, press "Train" and the field will change to "Training...". Now simply change a controller on your MIDI input device and the field will automatically change to the controller number you sent. The instrument module must not be muted and the rack power must be on for training to succeed. If the [Auto-Train] button is on when [New] is pressed, training will be started automatically.

You must manually select the "To" field. Some instruments provide a comprehensive list of MIDI controllers which will be shown in the "To" field. Many do not, and you must consult the instrument manual and select a numerical field.

If you manually configure a remap entry so that "From" and "To" fields are identical, the entry will not remain in the list if you close and re-show the console.

Continuous controller remap is MIDI input port-specific. You will have as many controller maps as you have input ports. Highlight the input port at the left to display and change the configuration on the right.

Toggle Mode

Toggle Mode configures a controller mapping to toggle the "To" value between 0 and 127 each time the "from" value transmits a value of 127. This feature allows you to assign MIDI foot switches to features on the instrument like an organ's rotary speed: Click once to slow the rotors down and click again to speed them up.

Saving and Loading MIDI Configurations

MIDI Configurations are assigned to an instrument module, but some settings can be saved and reloaded from a file. Press [Save] to save a configuration. This includes the following for each MIDI input:

- Key Range
- Transpose
- Channel remap
- Controller remap

This allows frequently used MIDI configuration parameters to be applied to other instrument modules or stored for future use. When a MIDI Configuration is loaded, you may optionally load or ignore specific portions of the configuration.

Setting a Default MIDI Configuration

The last-used MIDI configuration is always saved with an instrument module. Usually, this MIDI configuration will be reloaded automatically on any future instrument module using the same instrument. However, if you select a MIDI configuration to be the default, it will be used instead.

Insert Manager

Right-click and select Insert Manager to control the order of inserts.

Showing Effects Consoles

Double-click an effect to show its console. Working with audio effects consoles is very similar to working with instrument consoles. The only difference is that the console window is always floating (never docked) and there are no Program Map or MIDI Configuration tabs. Close an effect console by clicking the upper right hand [Close] button.

Using Effect Presets

Accessing an audio effect preset is identical to accessing instrument presets.

MIDI Routing to Effects

- MIDI input is sent to insert effects. The filtering is different for effects than for the instrument module.
- Program changes from MIDI are never sent to insert effects
- The Instrument Channel and Controller remap is not applied to MIDI before it goes to the effect. Each effect has its own controller remap to apply automation.
- Insert Effect Controller mapping is not MIDI input port specific (unlike an instrument's controller remap).
- Instrument Transpose is applied so that plug-ins like harmonizers can build chords on incoming audio data from MIDI notes.

Insert Effect Automation using MIDI Continuous Controllers

Incoming MIDI continuous controller data may be remapped to VST or DirectX 8.0 automation parameters. They can also be configured to toggle the effect's parameter. This can be useful to remap (For example, your foot-pedal MIDI input to Amplitube's stomp effects). The list contains each remap entry up to 128 with a "from" and a "to" column, along with a "toggle" checkbox. The list will only display entries that are remapped to automation parameters. Any controller not listed in the "from" column is not remapped and toggle is disabled. Any disabled controllers will not be passed to the instrument.

To add a remap entry, press [New]. To delete a remap entry, highlight the entry in the list and press [Delete].

Training is a convenient way to automatically set the "from" field without having to consult your MIDI controller configuration. Select a "from" field, press [Train] and the field will change to "Training...". Now simply change a controller on your MIDI input device and the field will automatically change to the controller number you sent. The Instrument Module must not be muted, and the rack power must be on for training to succeed. If the [Auto-Train] button is on when [New] is pressed, training will be started automatically.

You must manually select the "to" field. Most effects provide a list of automatable parameters which will be shown in the "to" field.

Working with Presets

Presets are one of the most powerful features of Karsyn. Presets enable you to use a single rack for an entire performance and automate preset changes, output routings, and mutes.

Each rack file can contain multiple presets visible in the Presets window.

Each preset contains a complete configuration including:

- A preset for every instrument in the rack. This does not need to be a saved preset because the actual settings of each instrument are saved instead of just a name.
- An effect preset for every audio effect in the rack. Again, this does not need to be a saved preset.
- A MIDI input enable for each port on each Instrument Module.
- A MIDI keyboard range, transpose, channel and controller remap for every MIDI input on every Instrument Module.
- An output buss selection for every Instrument Module
- A tempo (which many VST and DirectX plug-ins will follow).

Note that the Program Change remap is not included in a Preset. Presets may be optionally changed using incoming MIDI program changes. When this feature is enabled, MIDI Program Remap does not work because the program change messages are used to change presets instead of being remapped and sent to the instruments.

Creating Presets

Presets can be created by clicking the [Presets] button to the left of the presets list on the Control Module. The new presets will be given a name that represents the time and date the presets is created. Presets can also be created from within the Presets Manager (described below).

Changing Presets from the Control Module

You can change the current presets by clicking the up or down arrow to the right of the presets list.

Changing Presets from the QWERTY Keyboard

You may also advance to the next presets by pressing the SPACE BAR, or by assigning a shortcut key to each Preset.

Presets Tempo

Each preset can contain a tempo that instruments and effects can sync to. In addition, you may optionally choose to have Karsyn adjust the tempo dynamically from incoming MIDI Clock messages from a chosen MIDI input port.

To alter the preset's tempo, click the [Tempo] button in the Control Module.

The tempo dialog will let you adjust tempo using the horizontal slider control- or by typing the tempo into the edit box.

If you click [Follow MIDI Clock] on the input port, Karsyn will follow the tempo of incoming MIDI Clock messages from the highlighted input port.

6

Chapter 6 – Recording - REAPER

Recording with an Open Labs Production Station



Ready to jump right in and start making music? This section will get you going. One great way to learn REAPER quickly is to read the Keyboard Control section of Preferences (Ctrl-P). Reading this section will give you insight into just how flexible and powerful REAPER is. Can't find what you're looking for in REAPER? Try right-clicking on everything, you'll be surprised at the power hidden just below the surface.

The following pages will teach you how to record using your Open Labs production station. This is not intended to replace the REAPER PDF manual. Topics covered in this guide are:

- Opening REAPER
- Custom Color Themes
- Inserting and Using a VSTi
- Inserting an Audio Track
- Setting up VSTi Preferences
- Recording with a VSTi
- Rendering a Mix to File for Burning to CD
- Exporting Tracks for use in Other Programs

New to Recording?

If this is your first time using any type of recording system, you may want to research the basics of Pro Audio, producing music, and MIDI recording. A good place to start is KVR Audio. (http://www.kvraudio.com/wiki/)
Also, be sure to register on the Open Labs user forum, (http://forum.openlabs.com), where you can read and discuss music with artists like yourself.



Opening REAPER for the First Time

To open REAPER, click on the Open Labs icon. The icon is located at the bottom left of the opening screen. If you have exited the Open Labs shell, simply double left-click the REAPER Icon on the desktop. This will launch REAPER.

When you open REAPER, if it looks different than the pictures used in this guide, this is because REAPER allows you to use a custom color theme. In the following example, you will be shown where to switch color themes.

There are a couple of ways to select a color theme for REAPER. First, you can simply go to Options>Color Themes, and select a new theme. Or you can use the keystroke combination CTRL+ALT PGUP (to scroll theme up) or CTRL+ALT PGDN (to scroll theme down).



Additional custom color themes can be downloaded from the REAPER user forum, (http://stash.REAPER.fm).

Inserting and Using a VSTi

Using VSTi's is simple in REAPER. *REAPER on your Open Labs keyboard has already profiled your VSTi's, and is ready to go.* The following section tells you how to scan directories of VSTi's that you have added. If you have not installed additional VSTi's, then you can skip this next section.

Setting VSTi Preferences

There may be some options that pertain to you and your setup in the following example. Usual options are the "get plug-in names" scanning options. If you have problems scanning VSTi's, disable the "Get VST plug-in names/type when scanning" that REAPER does by default.

VST Plug-in Settings

Click the [Auto Detect] button to make REAPER scan your system and detect VST plug-ins.



VST plug-in paths: Enter a path here, or click the Add button to browse the directory that contains your VST plug-ins. Multiple directories may be added to this list. Separate each directory with a semicolon. Multiple directories are shown in the above example. If you use the add button, the semicolon is added for you.

Rescan directory: Click this button to force REAPER to rescan your VST directory(s). If you have installed a plug-in and it does not show in the list, use this option.

Clear cache and rescan directory: Click this button to clear the plug-in cache and force REAPER to build a new list of VST plug-ins. If you have installed a plug-in and it does not show in the list, and RESCAN DIRECTORY does not resolve, then use this option.

Get VST plug-in names/types when scanning: By default, REAPER retrieves the full plug-in name and type when scanning. Clear this checkbox to prevent this behavior.

What does this mean? If you have this option enabled, it will take much longer to scan your VST plug-ins, because as REAPER scans and initializes each one, it will increase the likelihood of a "buggy" VST to crash REAPER. However, if you do not have it on, it will not differentiate between VST effects and instruments and will put them all in the same folder. You will be able to use them just the same, but, they will show up a bit differently.

Save full VST plug-in state if supported (recommended): By default, REAPER saves the full VST plug-in state if the plug-in supports this function. Clear this checkbox to prevent this behavior.

Avoid restoring VST state on undo/redo if possible: Select this checkbox if you are having issues with VST plug-ins reloading patches when using the Undo function in REAPER.

Default VST configuration windows to generic UI (instead of plug-in UI): This gives you the option to view by default the generic VST window in REAPER instead of the plug-ins original GUI. Here is an example:



Generic UI of the same plug-in:

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	Gide		0.000
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	Patch Mem - Float Out B		0.0000
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dd Removel	Type		0.000

Better buggy processReplacing compatibility mode (slower): Selecting this checkbox may provide compatibility with poorly coded or older VST plug-ins, but will also increase the CPU overhead of REAPER.

Don't flush synthesizer plug-ins on stop: In general, this should be unchecked, unless you have plug-ins that don't handle the mainschanging properly (some SynthEdit-based ones reload all of their samples, for example).

Inform plug-ins of offline rendering state: This enables REAPER to "tell" plug-ins that have the ability to "hear" that it is rendering, and if the VST(i) has the feature, it will usually increase the quality for rendering (Voxengo plug-ins do this; so does Image-Line's Sytrus and Fxpansion's BFD).

Don't flush UAD-1 plug-ins on stop (helps avoid native CPU munch): This option prevents the UAD-1 from taking too much native CPU.

Set your VST path here:

VST plug-ins settings	
VST plug-in paths (can be multiple paths separated by semicolons):	Auto Detect
C:\Program Files\Vstplugins	Add

Scan for your VSTi's using this button:

Rescan directory Clear cache and rescan directory

Setting up a Virtual Instrument

Starting from a new project window, this how you prepare a plug-in (DXi, VSTi, or other supported plug-in) for output:

Press Control+T to add a new track. Then click the **FX** button:



You will then see the FX chain view page. Press the Add button located to the bottom left.



On the left side, select "VSTi". This will show you all the VSTi's included with your Open Labs production station, as shown in the following illustration.



Select VSTi from the left side menu. For this example we'll select MrRay22 in the VSTi window, and either double left-click, then drag and drop it onto your track, or select it and press "OK". MrRay22 is included with your Opens Labs production station.

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Setting up Recording

The next thing to do is arm your track for MIDI recording. Press the ARM button so it turns red. After arming the track, you will be able to hear this VSTi when you play notes on the keys.



By default, REAPER on your Open Labs production station is set to record MIDI whenever the ARM button is pressed. However, there is more than one recording mode for MIDI. Right-click the Record icon (pictured above), and you will see these options:

- **Record Input**: This is the default recording mode. It will record MIDI when a MIDI input is selected. This mode will record new items over others if encountered.
- **Record Output**: (MIDI) similar to the input mode, but instead it records the MIDI coming out of the FX chain. For instance, it would record the effects of a MIDI VST on to the track. It also renders the live output of a VSTi.
- **Record MIDI**: This will enable overdubbing in selected items, and will add notes within items, this is great for "loop" recording.
- **Record MIDI**: *Replace in selected items:* this will replace notes within items instead of overwriting the items themselves. The notes within will be entirely erased as you record over them.
- Track Recording Settings (Input Quantize: Format, Etc.): This allows you to setup input quantizing. It also allows you to dial in groove and swing settings, as well as set the format and .WAV bit depth of incoming audio tracks.

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Setting up Track Input

If you want to change the input source of a track, left-click the \bowtie button. This is located on the VU meter on the track:



In the examples below you will see the input source sections. If you need to input a drum machine, guitar, or microphone, follow these guidelines:

The first is **Mono Input**. Here you can choose a mono audio in source from the sound card.



Mono input allows a source to be assigned to an individual input of the sound card. For instance, if you want to plug in a microphone, guitar, drum machine, and a keyboard all at once and record them, just add a track for each source, and select an input for that source. Plug the microphone into MIC input 1 and the guitar into Mic Input 2 (these are the front inputs of the production station). For the drum machine and keyboard use LineIn 1 and LineIn 2 (these are located on the back of the production station). Remember to arm your tracks!

The second is **Stereo Input**. Here you can choose a stereo audio in source from the Presonus Firebox.



Stereo input allows a source to be assigned to paired inputs of the Firebox. The process is the same as for the mono inputs, except the stereo-ins are paired together as Mic 1 and 2, and LineIn 1 and 2.

The third is **MIDI Input**. Here you can choose a MIDI port and a MIDI channel for that port. This will list all active MIDI ports.



The Open Labs MIDI Driver 2 is the port that all your production stations control and keyboard keys are routed through. By default, all tracks are preset to this port. If you need to route MIDI from an external sequencer or MIDI device, use the Presonus FIREBOX MIDI-In. The firebox port is located on the back of your Open Labs production station. Here you have options to only record certain MIDI channels, or all MIDI channels. You can even select all channels from all MIDI inputs. Select the input you want to use.

Recording in REAPER with a VSTi

Master Panel Layout

This is the default REAPER Master Panel diagram of your Open Labs production station.



- 1. Return to the Beginning of a Project
- 2. Scroll Forward
- 3. Stop Playback
- 4. Transport Playback
- 5. Transport Record
- 6. VSTi Program Change Down
- 7. Track Select Up
- 8. VSTi Program Change Up
- 9. Track Select Down
- 10. VSTi Program Change Reset
- 11. Reset Transpose
- 12. Transpose Up +12
- 13. Transpose Down -12
- 14. Open Media Explorer Drag and drop Karsyn sounds
- 15. Open Mixer View Window
- 16. Open Track View Window
- 17. Open FX Browser
- 18. Open Render Window For mixing down the project
- 19. Selected Track Volume
- 20. Master Track Volume

Recording

To record with the VSTi you have inserted, just press the Record button on the master panel. You can also give the track a name.



You can then start playing the keys and the MIDI notes will be recorded.

Once you record a few bars, this is what you will see:



Hit the play button to play it back. You may need to hit rewind.

The metronome will help you to stay on time. Here is how you setup your metronome: First, right-click the metronome icon.



You will then see the metronome settings window.

🔟 🕎 Metronome Settings	×
🕛 🔽 Enable Metronome 🚾	
📅 💿 🗹 Enable during playback 🔲 Count-in before playba	ck
🔽 🗵 Enable during recording 🛛 🗹 Count-in before recordi	ing
Count in length (measures): 1	
Metronome volume:	-12.0dB
Rat Secondary beat gain:	-6.02dB
First beat sample:	Browse
Le Subsequent beat:	Browse
- or ·	
E Frequency of first beat: 800 HZ / subsequent beats:	1600 HZ
Beat click length: 4 ms	

The **Metronome Settings** window allows for various options for your metronome click sound.

Enable Metronome

- Enable during playback and/or count-in before playback.
- Enable during recording and/or count-in before recording.
- Count-in length: Allows you to pick how many counts you want it to click before recording or playback starts. There will be four clicks per number. For instance, if you type in the number 1, you will get four clicks before recording or playback starts. If you add the number 2, you will get eight clicks before recording or playback starts.
- Metronome volume: Allows the adjustment of the level of the first click.
- Secondary beat gain: Adjusts the level of all clicks after the first click.
- First beat sample: Allows you to choose a media file as the first sound of your click. If you have a sound you would like to substitute as the click source insert it here. This sound will be the first hit of the click. The volume of this one is controlled by the Metronome volume slider.
- Subsequent beat: Allows you choose a media file to be the secondary click of your metronome. The volume of this click will be controlled by the Secondary Beat.
- Frequency of first beat/subsequent beats: This is for adjusting the pitch of the default metronome click. This does not affect a custom click source.
- Beat click length: This adjusts the length of the default metronome click in milliseconds. A lower number makes the click sound shorter: A higher number makes the click sound longer. This does not affect a custom click source.

Notes:

If you do choose a custom sound it will be used until you select the text in the custom field and delete it.

If you want eighth note clicks instead of the default quarter note click, you will need to press ALT+ENTER to open the Project Settings window>Project Settings tab.

🔟 💩 🏭 🚔 🗒 🔒 open Labs 🛄	0 000 0:0
Project Settings	×
Audio Settings Project Settings Notes	
Project BPM: 120.000 Time signature 4 / 4	
Timebase for events/envelopes/markers: Beats (position, length, rate)	.
Ra Frame rate to use for Time + Frames time display: 23.976	
Project start time: 0:00.000 Subtract cursor position from start time	me
Project start measure: 1	
External timecode synchronization Configure	
Advanced	
Limit project length, stop playback/recording at: 10:00.000	
Allow feedback in routing (USE CAUTION) Automatically mute master output if volume exceeds: +18 dB	
Default track pan law - centered signal gain: 3.0 T	
Note: you can override any pan fader's law by right clicking on the fader	
OK Cancel Save as defaul	t project settings

On the Time signature setting, change it from "4/4" to "4/8". This will give you eighth note clicks instead of default quarter note click. You can also adjust your project tempo (BPM) here. Refer to the REAPER PDF manual for more info regarding the Project Settings window.

Looping

If you would like to loop the event you just recorded, you can do so by selecting a region to loop. Simply left-click and drag from the start of the project to the end of the area you want to loop. In this example, 1.1.00 to 5.1.00 is highlighted.



To loop playback or recording, you need to turn cycle on. Do this either by pressing the cycle button, or by using the "R" key on your QWERTY keyboard. Once playback or record reaches the end of the selection, it will return to the beginning and playback. Hence, looping.



You can use the same steps to record a loop, except you will want to draw out the region selection before you record. Left-click on the timeline and drag.

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Milli: Open Lalos Mildi Driver 2: Chy 🗤 49.4	•				
H - H - H - D 1.1.00 / 0:	00.000	[Stopped	1] 87%4 120		

The selection is stretched from 1.1.00 to 5.1.00. This sets up the project as a four bar loop and will cycle around once the transport reaches the end.

For recording MIDI drums, you might want to set the record mode to "overdub". Every time it cycles, it will allow you to add more notes.

When loop recording is in normal MIDI record mode, every time the transport cycles around a new take will be created. Start recording and let it make four cycles. Vary what you play each cycle. This allows you to choose the best one afterward.



As you can see, four takes were recorded in this recording. To monitor an individual take, just left-click that part of the take, or press "T" to toggle to the active take and it will solo itself from the others. This example has the second take selected. Right-click the take you want, and select "glue". This keeps the take you want, while deleting the others.

Refer to the REAPER PDF manual for more information on recording with plug-ins.

REAPER offers Track Mixers and a Main Mixer. Use either - or both - to set volume and pan. Select mute and solo, to add effects to your tracks. REAPER comes with a large assortment of built-in, high-quality effects. Add them by clicking the FX button on the track.

In REAPER, groups are called "folders". Use folders to apply volume, pan, and effects to a group of tracks. This is also known as linking tracks. To create a folder:

- 1. Place the tracks you want to link together in the Track Control Panel.
- 2. Add a blank track above them (CTRL + T). This will be the Folder track.
- 3. Click the folder icon on the folder track. The icon will change, and all tracks below the folder track will become part of that folder.
- 4. Click the folder icon on the last track you want included in the folder. The icon will change, and the folder is ready to go.

Importing Existing Tracks

You can add existing sound files to your REAPER project by:

- 1. Clicking and dragging them in. REAPER will automatically add tracks to accommodate them.
- 2. Inserting them through the "Insert" menu item. *Note the media item under the Insert menu is for supported sound formats and for video media as well.*

Rendering

When your mix is finished, it's time to combine your individual tracks into a single, stereo file. Rendering is done by clicking File>Render, or pressing the C5 button on your Open Labs production station's master panel. REAPER supports .WAV, .Ogg, .AIFF, as well as many other audio formats.

You can also burn to MP3. Please use the following steps to set REAPER up for creating MP3 audio:

- 1. You must download a MP3 codec and place it in the main REAPER directory.
- Download the LAME encoder (http://www.free-codecs.com/Lame_Encoder_download.htm), and unzip the downloaded file.
- 3. Then extract "lame_enc.dll" into the main REAPER directory ("C:\Program Files\REAPER").

- 4. Restart REAPER. Make sure your use of the MP3 format is legal; go to (http://mp3licensing.com/) for details.
- 5. If you plan to burn your new song to audio CD, select "Audio CD Image (CUE/BIN)" as the output format and check "Burn CD Image after render".

The following image shows the "Render to file" dialog box:

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Resample mode: Bette	r (192pt Sinc - SLOW)	•	
Render entire projection	t 🔘 Render time selection	C Render custom	¢.
Start: 0:00.000	End: 0:08.000 Le	ength: 0:08.000	1
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CADreases Files/DEAD			D
			Browse
Hender "stems" (sele	cted tracks) to similarly name	d hiles 🔽 Re	nder master mix
Add items to new trai	cks in project when thished	📃 🗖 Diti	ner
Dutput format: .WAV		- 🔽 🗖 No	ise shaping
WAV bit depth: C 8	C 16 @ 24 C 32 FP	C 64 FP	
Write BWF ('bext') c	hunk 🔽 Allow large files to	use Wave64	
Include project filena	ame in BWF description field		
E was in	n Columnite mark are at	artian with th	

- Set Sample Rate.
- Render either the entire project, or the time selection.
- Output file: Browse for a folder to store your track.
- Chose the Output format.
- Choose bit depth.

Once you have the settings you want, press the [Render] button. A process window will appear displaying the status of the rendering. Once it has finished, you will be able to burn it to CD.

Your Open Labs production station is bundled with a CD/DVD burning program. If you are unsure how to access this program, please call an Open Labs technician.

Exporting Tracks

If you would like to prepare a MIDI track for export into "stems" to be used by another program, you will need to consolidate the project. The first step is converting the MIDI to audio.

1. Right-click your MIDI event. Note the section, "Apply FX to items as new take" for stereo.

- 2. For a mono take note the "Apply FX to items as new take (mono output) section".
- 3. Once you make your selection, the "Applying FX" window appears and processes your MIDI event to a chosen format.

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The processed event will show your original MIDI event with the new AUDIO take directly underneath. From here you need to decide whether the audio portion of the event is what you want. Left-click to select the audio portion of the event.

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			•		

If the audio is what you want, right-click the audio portion of the event and select "glue selected items".



This is the finished event. MIDI has been converted to a stereo audio track.



You can export this as a track stem to be used in another program. To do so, go to File>Consolidate/Export tracks.

The following is the **Consolidate Tracks** settings window.

_	ungs	1.5				
C Entire project	• Time selection	Custom:		Т	racks:	
Start: 0:00.000	End: 0:08.000	Length	0:08,000	() All	Selected
✓ Ignore silence	shorter than 30	_ seconds ((can caus	e multipl	e files p	er track)
Force output f	ormat (if disabled, it wil	l be automat	tically dete	ermined	per-trac	:k):
Sample rate:	44100 💌 HZ	C Mono	🖲 Ster	reo		
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Consolidation settings: This area allows you to determine which area of a track you want to export.

- Entire project: Will export every track of the project, as well as the full length of the project.
- Time selection: If you have a loop range selected, it will only export content within the range.
- Custom: Allows manual input of what is exported.
- Tracks: All Exports all tracks in the project.
- Tracks: Selected Exports only the selected tracks. This is good if you want to export Tracks 1, 5, 7, and 14, for instance. Hold down CTRL and left-click each track you want to export.
- Consolidate to: Allows you to choose the format of the exported track.
- .WAV bit depth: Make sure the program you are exporting to can handle the bit depth you

Output settings: This area allows you to choose the directory or folder you want the exported audio to go to.

For more information on consolidation, please refer to the REAPER PDF user guide.

To learn more about the power of REAPER, please read the REAPER PDF users guide. Also, visit (http://www.REAPER.fm), and visit the REAPER online Wikipedia, (http://www.cockos.com/wiki/index.php/Main_Page).

Chapter 7 – MIDI Mapping - mFusion™

Mapping MIDI Controllers

Open Labs mFusion software unifies multiple MIDI interfaces, MIDI keyboards, and MIDI controllers into a single MIDI control panel for assigning MIDI channels, providing keyboard splits, assigning MIDI controllers, and setting other parameters for incoming MIDI data. In mFusion this is all called mapping.

Keyboards and other controls may be mapped from one type of MIDI data to another, or mapped to other functions, such as keystroke shortcuts, application launching, or even changing the mapping of another MIDI controller. All of the MIDI data mapped by mFusion is unified into a "virtual" MIDI port so that any music application may receive data from all attached MIDI controllers through one single MIDI port. The individual MIDI ports from each device remain available, however, for maximum flexibility.

About this Chapter

This chapter describes the mFusion control panel application, as well as the procedures for creating presets, adding maps, adjusting MIDI settings, and changing controller assignments.

Maps

Miko will typically have three control panels installed: the Master, DJ/VJ Controller, and the QWERTY keyboard. Both the Master and the DJ/VJ controllers are complete, independent USB MIDI controllers. In addition, the piano keyboard itself, including the pitch and modulation wheels, and the hold and expression pedals are MIDI controllers. Users may also use MIDI or USB to attach external MIDI controllers. Each of these MIDI controllers or panels has its own settings within mFusion called a map. Each map contains settings for the buttons, faders, knobs, or other control items that may be mapped.

A key feature of mFusion is the ability to make partial maps. If a map only includes settings for a few controls, all other controls retain previous settings. Maps may be saved and recalled as needed to apply different controller assignments or MIDI settings for entire panels or individual controls.

Presets

During a music performance, or when changing from one music application to another,

it is often necessary to change several or all maps all at once. In mFusion, several maps may be saved together as a group called a preset. Maps always live within presets, so even if only one map is needed for one MIDI controller, at least one preset must be created.

Control Panel Overview

The mFusion control panel is divided into four parts. On the left side is the Preset List. Each preset in the Preset List may be expanded to show the maps within each preset, and the controls within each map.

The Preset List also contains the "Live" view to show the actual current settings of each connected MIDI controller. To the right of the Preset list are the Panel View on top and the Control Editor below.

The panel view shows the controller panel for the selected map and preset, while the Control Editor shows the settings for the particular control selected in the panel view. Across the bottom of the mFusion control panel are the Global Keyboard Settings for basic settings of the music keyboard.

Preset List

The preset list contains all saved presets, as well at the "Live" panel view. Each preset, as well as the live view, may be expanded to show the maps contained within the preset. Each map may then be expanded to show the individual controls within each map. When a map or control is selected in the preset list, the control or control panel for that map will appear in the control editor or panel view areas, respectively.

The Live view shows the current settings for all attached MIDI controllers, and allows immediate real-time setting of the controls. Changes in live view are effective immediately, and do not affect any settings in a stored preset. Presets, on the other hand, are just settings stored for later use. Changing settings in a preset does not immediately affect the actual MIDI controls. Pressing the [Make Active] button applies the currently selected preset or map to the actual live control panel at that moment.

Preset menu

The [Preset Menu] button pops up all of the functions for working with presets. To create a preset, select [New Preset] from within the preset menu. This creates a new empty preset with the default name of "Preset" followed by a new preset number. Select [Rename] to name or rename the new preset. To add control panel maps to the preset, select [New Map] and then select an available control panel to add. The new map will be selected and ready for editing.

To save changes to the selected preset, select "save preset" from the preset menu. While editing a control in a particular map, that map and preset are already selected for saving. Several different maps may be edited by just switching between different maps and presets. To save all changes at one time, select "save all". No changes are lost until quitting the mFusion control panel. To delete a preset, a map, or an individual control from a map, select the item to be deleted from the preset list and select "delete" in the preset menu.

Options

The [Options] button displays overall settings and options for mFusion.

MIDI In

Selects the MIDI input ports which mFusion will map and control. Any attached Open Labs control panels are always selected and do not appear in the list. This list is for additional input ports to be included in mFusion's MIDI processing and mapping. mFusion outputs all mapped data through a virtual port called "Open Labs MIDI Driver". Any MIDI applications will detect this as an input.

MIDI Out

Selects additional output ports for mapped data. The same MIDI data that goes to the Open Labs MIDI Driver will be output to all selected ports. Selecting the MIDI out port, for example, will send all data to the rear panel MIDI OUT jack. This would allow the Miko to control external sound and MIDI devices.

General

Options panel selects system wide setting. The "default note panel device" determines which MIDI data source is considered the main music keyboard input for the system. In the Miko, this defaults to the "Master Control Panel" which serves as the input for the MIDI keyboard, including the pitch and modulation wheels, and the foot pedal inputs. The "preset directory" is the location on disk where the mFusion presets are stored.

Virtual Controls

Launches an on-screen X-Y controller, allowing a mouse or the touch screen itself to be used as a MIDI controller. Each axis may be assigned to a separate MIDI channel, controller number, and value range. The velocity setting adds a control lag or delay to make movement slower and smoother. A black circle indicator shows the current mouse or finger position, while a red circle indicator shows the actual MIDI output after velocity is applied.

Panel View and Control Editor

The panel view section of the mFusion control panel shows a graphical representation of the map selected in the preset list. For example, if the MIDI keyboard map is selected, an image of the keyboard will appear along with buttons for the wheels and pedals. To view or change the settings of any button, knob, fader or other controller, just click on that item to select it. The selected control item will be highlighted in white.

When an item is selected, all of the settings for that item will appear in the control editor section just below. Any control item that had been mapped, but is not currently selected will be highlighted in blue. Unmapped items will not be highlighted.

Control Types

Each different type of control item will have its own particular settings. Buttons will have one set of options, for instance, while faders will have another. Buttons, faders, and encoders are each common, general purpose control types described below. Additional control types may be unique to a particular device or control panel, and will be described under that specific panel.

Button Control Settings

Select a button to edit its settings. For example, click on the red [Record] button on the master control panel to bring up setting for that button. A button type list will appear below on the left. Each button type is used to send a different type of message or command.

MIDI Control

Sends MIDI continuous controller messages. Continuous controllers, or CC's are numbered from 0 to 127, and will be sent on the selected MIDI channel from 1 to 16. Many of the Controller numbers have specific defined uses such as 64 for sustain and 65 for portamento on/off, but it's really up to the specific MIDI implementation of each device, application, or plug-in. The MIDI cc# and MIDI ch values sets the continuous controller number and the MIDI channel number for the button.

Keystroke

Emulates key presses and key commands on the PC keyboard. A button can send any single keystroke, complete with shift, control, or alt key combinations. To set the keystroke, press the [Learn] button. The next keystroke pressed will now be recorded.

App Launch

Sets the button to startup a particular Windows application. For Example, a button may be setup to launch the Karsyn VST host application. If Karsyn is already running, but is covered by another window or another application, this will bring Karsyn up as the current application.

Map Change

Switches to another single control map, or another complete preset. This allows a

button to act as a mode or bank change for group of controls, a whole panel, or for the whole keyboard. For example, one button might load a preset for use with the Karsyn VST host, while another button would load a preset for use with sequencer or recording software. As a bank-switching example, a row of buttons might be set to send MIDI CC numbers 1-8. Another button could be set to load a new map with those same buttons re-mapped as MIDI CC number 9-16. This second map could also remap the [Map Change] button to switch back to the first map with MIDI CC numbers 1-8.

Transpose

Allows immediate shifting of notes on the MIDI keyboard. Typically, one button might shift the keyboard up an octave, while another would shift the keyboard down an octave. A transpose button may be set to "Absolute Mode" to set the transposition to a specific octave and semitone, or it may be set to relative to shift the transposition by a specific amount each time the key is pressed. For example, to set the keyboard to the key of B-flat, use "Absolute Mode". To create octave shift keys, use "Relative Mode" to move the transposition up or down an octave each time the key is pressed.

Program Change

Sends a MIDI program change command. This is typically used to change patches or sounds in a particular instrument or plug-in. It is up to the specific MIDI implementation of each instrument, application, plug-in, or other device as to how program changes are handled. In Karsyn, for example, program changes can select any of the first 128 presets by number.

The "prog chg" and "MIDI ch" values sets the program change number and the MIDI channel number for the button.

MIDI Note

Sends MIDI "note-on" commands, emulating the keys on the MIDI keyboard. Usually MIDI notes are used to play sounds, as on the MIDI keyboard, but some applications can map specific software functions to notes on the MIDI keyboard. In other cases, a note-on or note-off will start or stop a particular sample or drum loop. Pressing the button sends the selected note-on message. Releasing the buttons sends a corresponding note-off command. The note num and MIDI ch values sets the note number and the MIDI channel number for the button.

Fader Control Settings

Faders send MIDI continuous controller messages. Continuous controllers, or CC's, are numbered from 0 to 127, and will be sent on the selected MIDI channel from 1 to 16.

Many of the Controller numbers have specific defined uses, such as 1 for modulation, 7 for volume, and 10 for pan position, but it's really up to the specific MIDI implementation of each device, application, or plug-in.

The MIDI CC# and MIDI ch values sets the continuous controller number and the MIDI channel number for the fader. The mute button is useful when using the Live view.

While mute is on, the fader may be moved without sending any MIDI commands. This can help prevent sudden value jumps in cases where a recalled value in some music application does not match the last known position of the fader. The Invert button effectively reverses the direction of the fader, causing values to decrease when the fader is moved up.

Encoder Control Settings

Encoders turn like a regular knob, except that they turn continuously in either direction. By their nature, encoders send relative values, as in "one to the right" or "one to the left", making some assigned value go higher or lower.

Jog and scrub wheels often behave in this manner to sweep from the beginning to the end of particular track by continually moving in one direction or the other. Encoders may also be set to emulate a knob, where the assigned value goes between two fixed limits, usually 0 and 127 in the MIDI and music software world. Encoders send MIDI continuous controller messages.

Continuous controllers, or CC's are numbered from 0 to 127, and will be sent on the selected MIDI channel from 1 to 16.

Many of the Controller numbers have specific defined uses such as 1 for modulation and 7 for volume, but it's really up to the specific MIDI implementation of each device, application, or plug-in. The "MIDI cc#" and "MIDI ch" values sets the continuous controller number and the MIDI channel number for the encoder.

Behave like encoder sets the encoder to operate in its normal relative manner, sending only change values on the selected MIDI CC number and channel.

The [Emulate] knob automatically tracks the encoder to adjust a value between the chosen low value and high value. In most cases with MIDI, this will be between 0 and 127. Normally, when the encoder reaches the low or high value limits, further turning of the knob past that limit will have no effect.

If the [Wrap] button is selected, turning the knob past a limit will cause its value to wrap around to the opposite limit and continue changing. Because a knob has an absolute position, but an encoder does not, knob emulation has "init value" to set the initial value of the encoder when a map or preset is first loaded.

The mute button is useful when using the Live view. While mute is on, the knob may be turned without sending any MIDI commands. This can help prevent sudden value jumps in cases where a recalled value in some music application does not match the last known position of a knob or emulated knob.

The "sensitivity" setting adjusts how much a value will change with each turn of the knob. If the low and high values go from 1 to 10, for example, the sensitivity might be set very low such that it takes a full turn of the know to get from 1 to 10.

The [Invert] button effectively reverses the direction of the knob, causing values to decrease when the knob is turned to the right.

Control Panel Types

Miko Master Control

The Open Labs Miko master control panel contains eighteen buttons and five sliders. The buttons are all freely assignable, but have been designed and labeled to support specific system operations and software functions.

DJ/VJ Controller

The Open Labs DJ/VJ controller contains twelve buttons, one A-B cross fader, and seven knobs. The buttons are all freely assignable, but have been designed and labeled to support specific system operations and software functions.

Keyboard Range Map

The Miko MIDI keyboard range map allows the keyboard to transmit on each of 16 MIDI channels, with each channel having its own range or split. In the Keyboard Range Map panel, select one of the 16 MIDI channels to edit the range for that channel. The low key and high key values set the range of keys that will play on the selected channel. The octave and semitone values transpose the keys played within the range to make the keys play the desired notes.

Keyboard Range Map

The Miko MIDI keyboard range map allows the keyboard to transmit on each of 16 MIDI channels, with each channel having its own range or split. In the Keyboard Range Map panel, select one of the 16 MIDI channels to edit the range for that channel. The "low key" and "high key" values set the range of keys that will play on the selected channel. The "octave" and "semitone" values transpose the keys played within the range to make the keys play the desired notes. The selected range of keys on each channel is illustrated graphically in the panel view above.

Global Keyboard Settings

Global Keyboard settings are immediate system settings for the MIDI keyboard, and are not stored as part of any presets or maps. The "octave" and "semitone" value shift the keyboard up or down by the selected values. This transposition occurs before any keyboard ranges are applied so that key ranges and splits are shifted up and down with the global settings.

The "velocity" value adjusts the velocity response curve of the keyboard. At the lower

values, the keyboard becomes less sensitive at medium velocities, while the higher values make the keyboard more sensitive at medium velocities.

Selecting Presets in mFusion

You should select your desired preset in mFusion before you launch your application. To do so simply click the preset listed in mFusion's editor and press the "make active" button.

Chapter 8 – MimiK Users Guide

What is MimiK?

MimiK is a program designed to sample your MIDI-capable keyboards and hardware. It can be set up to automatically record all the sounds on your favorite hardware for use on your Open Labs production station. The basic algorithm behind MimiK is that it will send MIDI messages for every note on the target keyboard you want to sample.

At the same time it will record each note played back by the keyboard. It has the ability to capture different note lengths, velocities, note ranges, note off samples and much more. After it has recorded/sampled all the notes of a preset, it will store a special file that can be read by a SFZ sample player. Each sample is stored separately as a WAV or OGG file on the MimiK machine.

MimiK Suggested Usage

Due to the amount of time it takes to correctly mimic one sound well, we recommend sampling each preset one at a time. You can mimic batches of presets or entire banks, but the time and disk space required can be inhibiting.

Straightforward sounds like pianos, drums, and basses have a pretty simple architectural structure. This makes it very easy to mimic an entire bank at once. Performance banks and custom patches may have nuances that really need to be dialed in, therefore increasing the time and disc space required. There are a number of ways to reproduce a custom or performance patch.

For instance, some performance patches are made up of multiple sounds. Instead of MimiKing the performance patch, MimiKeach sound that is in that performance patch. Then blend them all back together in your host. This will allow you to really dial a sound in.

It is also a good thing to write down key settings of the original sound effects settings, ADSHR and envelope settings.

What is a Preset and a Bank?

In this documentation the terms "preset" and "bank" will be used frequently. A preset is one complete unique sound. A bank is a collection of presets.

SFZ Format

MimiK uses the open SFZ format for storing sample libraries. The SFZ format is very simple. Every preset captured by MimiK will have a matching SFZ file (.sfz). This SFZ

file is a human readable text file that can be opened and edited in Notepad or Microsoft Word. The SFZ file is a list of all the samples that are in the library. Each sample is either a WAV or OGG file. The SFZ file also contains information about each sample, such as what note the sample is and things of that nature. SFZ files can be opened up with the free SFZ sample player (Highlife by Disco DSP)

How to Physically Set Up MimiK

Wiring Diagram

The following image shows you a basic wiring diagram.



Turn on the keyboard you want to mimic. You will need a standard MIDI cable and one or two ¼-inch audio cables (One audio cable if you want to record in mono, two for stereo).

Now plug in one end of a standard MIDI cable from the "MIDI out" port of your Open Labs production station. The port is clearly marked on the back of the unit. Plug the other end of the MIDI cable into the "MIDI in" port of the keyboard or module you want to mimic.

Next, obtain one or two ¼-inch audio patch cables. Plug one end into the audio output(s) of the keyboard you want to mimic. Then plug in the other end to audio input one (and two if you are recording a stereo keyboard) of the Open Labs production station.

Now we need to test if cables have been correctly hooked up.

Make sure the Open Labs production station is hooked up to a set of speakers or that

you have a pair of headphones plugged into the headphone jack. You will use these to monitor the sounds coming from the keyboard you are cloning.

Setting up MimiK

If the Open Labs production station is not turned on, do so now. Shut down all other programs that are running. Other programs may interfere with the recording process. Launch MimiK. The main window should appear. Click on the Options button.

Mimik Key Cloner	×
Clone	Help Options Panic Monitor
bank: program: note: C1 / C6 velocity: aftertouch: note down time: release time: file:	
approx time: 0 seconds / 24 minutes 25 seconds approx disk space: 369 meg	Open Labs version: 1.00

The options dialog will appear.

options			
Audio Input Device		MIDI Output Device	
PreSonus ASIO Driver (FireBox)		PreSonus FIREBOX MIDI Out	
ASIO Inputs		Output Directory For Samples	
1/2: Mic/InstIn 1&2 left + Mic/InstIn 1&2 right 🔶		c:\Mimik Output	
Low Range	High Range		Bank Name
C1 play	C6 play	Bank Select	bank
Note Down Time	Release Time		Program Name
5	1	Program Change	program
Velocity Layers	Channels	Note Down Time ,	/ Offset / Release
4	Stereo 🔶	Release Trig 1	0 2
Output Type	Wav Bit Depth		Velocity Layers
WAV	24 🌲	Capture Aftertouch	1
Program Change Time	Playback Transpose	Chan Londing Complex	Noise Floor (DB)
1.5	0	Chop Trailing Samples	-60
Input Gain			
	Test	(default) (ok	cancel

Make sure that the correct Audio Input Device is chosen.

Options		
Audio Input Device	MIDI Output Device	
PreSonus ASIO Driver (FireBox)	PreSonus FIREBOX MIDI Out	
ASIO Inputs	Output Directory For Samples	
1/2: Mic/InstIn 1&2 left + Mic/InstIn 1&2 right 🔶	c:\Mimik Output	

For most users it will be the PreSonus Asio Driver (Firebox). This is the default device driver for your installed sound card, but it may be any other ASIO device you have installed.

Make sure the correct MIDI Output Device is chosen.

Options	
Audio Input Device	MIDI Output Device
PreSonus ASIO Driver (FireBox)	PreSonus FIREBOX MIDI Out
ASIO Inputs	Output Directory For Samples
1/2: Mic/InstIn 1&2 left + Mic/InstIn 1&2 right 🔶	c:\Mimik Output

For most users it will be the PreSonus Firebox MIDI Out. This will be the default MIDI device driver for your installed MIDI output device, but it can be any MIDI output device you have installed.

MimiK Features Guide

Main Window

Mimik Key	/ Cloner	×
Clone		Help Options Panic Monitor
bank: program: note: velocity: aftertouch: note down time: release time: file: approx time:	C1 / C6 0 seconds / 24 minutes 25 seconds	Open Labs
approx disk space	: 369 meg	Open Labs version: 1.00

Options: Launches the Options dialog window.

Panic Button: Sometimes keyboards drop note off MIDI messages. You'll know when that happens because you'll get a stuck note. The Panic button sends a "note all off" message to the keyboard. This should get rid of any stuck notes.

Monitor Button: By default this is on. When highlighted, all audio input will be routed to the audio outputs of the Open Labs production station. This is useful when you want to hear the progress of the MimiK process.

MimiK Button: Starts the MimiK process. The MimiK process basically consists of sending MIDI notes for each key on the keyboard for a specified period of time and recording the output. This process can be paused or stopped at any time.

Options Window

Options

Audio Input Device		MIDI Output Device	
PreSonus ASIO Driver (FireBox)		PreSonus FIREBOX MIDI Out	
ASIO Inputs		Output Directory For Samples	
1/2: Mic/InstIn 1&2 left + Mic/InstIn 1&2 right 🔶		c:\Mimik Output	
Low Range	High Range		Bank Name
C1 play	C6 play	Bank Select	bank
Note Down Time	Release Time		Program Name
5	1	Program Change	program
Velocity Layers	Channels	Note Down Time /	/ Offset / Release
4	Stereo 🔶	Release Trig 1	0 2
Output Type	Wav Bit Depth		Velocity Layers
wav 🔶	24	Capture Aftertouch	1
Program Change Time	Playback Transpose	 ✓ Chop Leading Samples ✓ Chop Trailing Samples 	Noise Floor (DB) -60
Input Gain	Test	default ok	cancel

Defaults Button: Resets all the options to the original defaults.

Program Change Time: Time (in seconds) that a program change will take. If the current program is being sampled then this is irrelevant. Some keyboards have notoriously long program/preset change times.

ASIO Inputs Device: Exposes which ASIO audio input device is used.

ASIO Inputs: Exposes which inputs on the ASIO audio input device are used to record.

MIDI Output Device: Exposes which MIDI output device is used.

Output Directory: Defines the output directory that all the samples are stored in. To pick another output directory, click on this text box to bring up a directory picker dialog.

Low Range and High Range: Defines what MIDI messages will be sent from MimiK to the keyboard. These notes are inclusive. You may either drag up or down to raise or lower each range. Or you may type in a valid note. Click on the play button beside each range to send a test MIDI message to the keyboard.

Note Down Time: Defines the time in seconds that each velocity layer of each note is sampled. The longer the note down time the better. The trade off is in how much disk space is used and how long it takes to MimiK a preset. You will need to experiment with each preset to see what works best.

Release Time: Defines the time that MimiK will continue recording output from the keyboard after a Note Off MIDI message is sent. This is useful for capturing the decay/release of a sound after a note

has been released. Some sounds have long decays (sounds with lots of reverb) so you may want to adjust depending upon the preset.

Velocity Layers: Choose how many velocity layers to MimiK. If "1" velocity layer is chosen, then each note will be sampled once as if it was hit at full strength (a velocity of 127). If "2" velocity layers are chosen then two velocities are recorded (63 and 127), and so on. Keep in mind that most keyboards don't actually playback that many different sounds per velocity. Volume attenuation is used, but the actual sound played back is usually the same. We recommend using 1, 2, or 4 velocity layers for most keyboards.

Channels: You can decide whether you want to capture a mono or stereo sound. If you choose to capture a mono sound, the left input will be used. This can cut the amount of disk space in half. This option makes the most sense when cloning keyboards only capable of creating mono output.

Output Type: You can decide whether you want to capture a mono or stereo sound. If you choose to capture a mono sound, the left input will be used. This can cut the amount of disk space in half. This option makes the most sense when Cloning keyboards only capable of creating mono output.

WAV Bit Depth: Defines how many bits are used for each sample (CDs are 16-bit). The higher the better. The higher the bitrate, the more disk space used.

Quality: When the OGG/Vorbis format is used, the quality of the output files can be edited. The higher the quality, the better sounding the sample will sound. Keep in mind that higher quality settings will also create larger files.

Quality 0 is roughly equivalent to 64kbps on average, 5 is roughly 160kbps, and 10 gives about 400kbps. Most people seeking very-near CD-quality audio encode at a quality of 5 or, for lossless stereo coupling, 6. The default setting is quality 3, which at approximately 110kbps gives a smaller file size and significantly better fidelity than .mp3 compression at 128kbps.

The default setting of 3 seems to work for many sounds.

As always, if you need CD-quality sound use the WAV output type.

Test Button: The Test button is extremely useful. It will behave exactly like the "MimiK" button on the main window, except that nothing is recorded to disk. Therefore you can hear a preview of what MimiK will actually do once you hit the "MimiK" button. The test can be canceled at any time.

Playback Transpose: This value is In octaves. It specifies the amount of transposing that happens when the samples are played back. Really this just shifts what keys will trigger the samples. It will have no effect on the actual sound. Take for example, you sample a few of the lower octaves from a keyboard (C0 - C2). For some reason you want to play them back with your right hand. This option will let you shift the keys that will play back the samples, up a few octaves if necessary (maybe C5-C7). Experiment to see.

VU Meter: Audio input VU meter. It mirrors the VU on the main window.

Input Gain: Some keyboards can be a bit soft or loud. Adjusting this will allow for keyboards with different levels of output.

Bank Select: When this is NOT selected, you can type in the name of the Bank you will be recording It will be left up to you to manually (on the keyboard) pick the bank you want to sample from.

If Bank Select is selected, you will be allowed to select an inclusive range of banks that MimiK will attempt to capture. Warning: many keyboards do not support the General MIDI Bank Select command, so running this may or not work. It is recommended that you test if your Keyboard even has more than one bank. If it does, then check if it even supports Bank Select via MIDI. Due to the amount of time it takes to sample one preset we recommend not using the Bank Select option even if your keyboard supports it. Sampling one bank at a time is what we recommend over attempting to sample multiple banks. Regardless the option is there.

Program Change: When this is NOT selected you can type in the name of the preset you will be recording. It will be left up to you to manually (on the keyboard) pick the preset you want to sample from. If Program Change is selected then you will be allowed to select an inclusive range of programs that MimiK will attempt to capture.

Release Trig: ***This setting will record a separate sample!!!***

Short for Release Trigger.

Some keyboards trigger sound/samples upon the MIDI note off message. Enabling this option will enable MimiK to capture just the sounds made after the MIDI note off is sent. Sounds captured this way can then be played back whenever a note off is sent for a particular sample.

The Note Down Time parameter is the time that a note will be played. During this time period no sound is actually recorded! The recording will begin once the note is let up (MIDI note off message is sent).

The Offset parameter is any additional time to NOT record after the MIDI note off message is sent. This is useful for tweaking and isolating a specific part of the sound.

The Release parameter is how long to record after the note off is sent plus the Offset time. This is the only time actual recording takes place within the Release Trig event.

Capture Aftertouch: If your keyboard supports it, aftertouch can be captured separately from regular note down events. To keep things simple it sends an aftertouch message immediately after the note down is sent. All the other parameters (note down time, release time) apply. Different aftertouch layers can be captured. If "1" layer is selected, then an aftertouch value of 127 is sent and recorded. If "2" layers are used, then an aftertouch value of 63 and 127 are sent and recorded, and so on.

Chop Leading Samples: Anything below the noise floor is chopped off at the beginning of the sample. There is a slight delay in the time that the MIDI information is sent by the Open Labs production station and when the keyboard output sound is recorded by MimiK. This delay can be noticeable, so this option is useful in removing it.

Chop Trailing Samples: Anything below the noise floor is chopped off from the end of the sample. This can be a disk space saver for sounds that end before the note down and release time expire.

Noise Floor: Floating point noise floor for Chop Leading Samples and Chop Trailing Samples. Anything below this noise floor will be cut out of the samples.

MimiK Tutorial (Quick Start)

Click on the Play button under the Low Range label. This will cause MimiK to send a MIDI note to the keyboard. This should in turn cause the keyboard play a note back to the Open Labs production station. If you do NOT hear a note played back from the Open Labs production station or see the VU meter light up in the options screen then:

1) Move the Low Range note around (up or down). Your keyboard may only play back from a small note range. Dragging up or down on the control will move the note range up and down. Do the same for the High Range.

2) Recheck all your cables. Check for possible bad cables.

3) Make sure the keyboard you are trying to mimic has its MIDI input enabled (read the keyboard manual). If you plan on MimiKing multiple sounds from multple banks, make sure your MIDI keyboard or module has MIDI bank select enabled, and MIDI program change selected.
If you hear a note and see the VU meter lighting up when you hit the play button, then you are ready to pick what you want to sample from your keyboard.

How to Playback a Sound after using MimiK

Translator

Translator is used to convert MimiK files into Proteus Banks. You will find Translator on the desktop of your Open Labs Workstation.

Translator main window:

File View Tools Help	
<u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ </u>	Open Labs Edition™ CC open Labs
🔊 Drives/Folders	Object List
Constant My Computer	Release III Translate
🗍 🗇 🖅 🗐 System (C:)	program
🗄 🖳 Bundled Data and Drivers	🚯 program.sfz
庄 🖳 Cakewalk Projects	
👘 🛄 Digidesign Databases	
🕀 🕀 💼 Documents and Settings	
🖻 💮 Mimik Output	
庄 🔂 bank	
🗄 💼 bank_0	
🕒 🕀 💼 Open Labs Data	
🗄 🕀 💼 Plugins	
🗄 💮 Program Files	
temp	
🗄 💼 TouchPad	
🗎 🕀 🛄 Wusik.com	
End demo1.txt	

You translate files by one of eight methods:

- 1. Dragging (drag-and-drop) from the right to the left. This is the most immediate and efficient method.
- 2. Right-clicking on a file or object in either the Right or Left pane. This brings up a pop-up menu in which you can select to "Convert As..." into another format.
- 3. Double-clicking on a file or object in the Right pane. This works only for items being written to non-Proprietary drives and for one file or object only.
- 4. Using the Batch Converter. The Batch Converter allows you to pre-select objects and then translate them in groups into separate objects or combine them in any sort of ways into single objects.
- 5. Clicking the [Translate] button in the toolbar. This will translate the one or more objects selected in the Right pane.

- 6. Selecting the File menu and selecting Convert As... This does the same thing as clicking the Translate button.
- 7. Dragging a file or folder within Explorer/Expose onto a Shortcut/Alias. This starts Translator in the background and offers you a choice of what to convert to.
- 8. Right-clicking on a file or object in Explorer/Expose. This does the same thing as dropping an object on the shortcut or alias.

Once you have mimicked a sound, browse over to where you stored that sound. The default location for a mimicked sound is: "*c*:*MimiK Output*". Left-click the folder in the explorer view that contains your MimiK bank. When you do that, you will see the .sfz file in the Object List. Go ahead and select the .sfz file.

😡 Translator(tm) Open Labs Edition™ - A Chicken Systems Pro	duct
File View Tools Help	
	Open Labs Edition™ C3 open Labs
	Object List
	Release Program SamplePool Program.sfz
Program Files TouchPad WINDOWS Wusik.com demo1.txt	

After you select it, press the "Translate" button.



Now you will see the "All Export" window. Select "Emu Emulator X Bank" and hit "Ok".



This will start the translating conversion. The size of the bank will determine how long it takes to complete. You can select multiple .sfz files and translate them all at once. The next section will show you how to take those newly translated Proteus banks and make them available in your Proteus Library.

Proteus

After you have converted those MimiK .sfz files into Emu/Proteus banks, you will open them inside of Proteus. These banks will behave like a normal Proteus bank.

First, you will need to point Proteus to your MimiK output folder.

Exit the Open Labs shell, and open Proteus from the desktop.

Once Proteus is open, either use the touch screen, or mouse pad to left-click the "Library" tab at the bottom of the left-hand browser column.

Left-click "Banks", and you will see the "Update Library..." option. Select this option.

This option will allow you to add a new folder to your Proteus instrument.

Once the option window is open, left-click the "Add Location..." button.

This will bring up the "Browse For Folder" dialog window. Browse over to the "Mimik Output" folder or if you have your own folder, add it.

Place a check-mark on "MimiK Output". Then left-click the "Update" option. This will load up all the files in your MimiK sound folder.

Once the banks have been loaded, select "Banks" in the left-hand column. Your banks will show up on the right-hand side. Just scroll down until you see them. Select one and load it up.

Please refer to the Proteus manual for more information on using Proteus.

9

Chapter 9 – Hardware Maintenance

Please Read

If you have never worked with the interior components of a computer, please read this chapter carefully, and consult Open Labs for assistance. Most of the components are delicate and are sensitive to rough handling, static electricity and magnetic fields. Practice these precautions before proceeding with hardware work:

- Do not work on hardware with the Open Labs Production Station plugged in.
- Always work on your Open Labs Production Station on a flat table-top and not on the carpet or floor.
- Do not use excessive force on any components within the case.
- Keep all hardware in anti-static bags until installed.
- Avoid moisture and wet surfaces.
- When in doubt, consult technical support.

New Hardware Installation Considerations

If you wish to add more onboard memory, hard disk storage, or additional PCI boards you will need to upgrade your Open Labs Production Station. When adding new hardware, the following considerations should be made:

- All hardware should be in the Microsoft Hardware Compatibility List for Microsoft Windows XP. If it is not, then you risk the chance of device or system malfunction, or system corruption, which may require system recovery.
- Your hardware should comply with the motherboard specifications. For example, use only DDR2 memory when you wish to upgrade onboard memory. If you do not use the correct memory for your system, you will experience instability and perhaps even data corruption. Ideally all memory should be from the same manufacturer and of the same speed and type. Motherboard specification for other onboard devices can be found in the motherboard manuals provided or from download.
- Additional hardware should not over cramp other components. It is not recommended that you overload your Open Labs Production Station with too many internal devices. This can cause too much heat output. For example, connecting 4 IDE hard drives, plus 4 SATA drives would be a bad idea. Too much heat will cause hardware to fail.
- Air flow should be optimized by securing all loose cables with recommended cable-ties, or using rubber-insulated ribbons. Ensure that no cables are brushing up against moving fans.

Opening your Open Labs Production Station

Before opening your Open Labs Production station, please consult with an Open Labs

Technician. Failing to to do so may void your warranty. To speak with a tech please email support@openlabs.com or call 512.444.6222.

Appendix A - Bundled Software

Open Labs Production Station's ship with a wide variety of software, including many VST instruments, effects, utilities, and of course the Windows XP operating system:

Microsoft

Windows XP Home

Open Labs Inc

Open Labs GUI Karsyn 1.5 MFusion 1.5 MimiK

Cockos

Reaper

CD Burner XP

CD Burner XP

Chicken Systems

Translator

Softthinks

PC Angel Lite

Mozilla

Firefox 2.0 Thunderbird 1.5

Adobe

Acrobat Reader 7.08

Apple

Quicktime

Instruments:

4-Front Technologies

Truepiano

Wusik

WusikStation V3+DFD+GM

EMU

Proteus – X

Disco DSP

Highlife

Vertigo

Discovery

LennarDigital

Sylenth 1

Luxonix

Purity

Synth 1

Synth1

XLN Audio

Addictive Drums Demo

Music Lab

Real Guitar SE (Demo)

Audio Nerdz

Delay Lama

Big Tick

Tiki Clav

Buzz Room

Lollapalooza lite BB303i v2

Green Oak

Crystal

Elogoxa

Sun RA

Soundfonts

ORGANized Trio Mr. Ray Mr. Ray73 Mr. Tramp

Ugo

Motion Rez String Theory

Psychic Modulation

Optik Minimal Pandemonium

Insert Piz Here

Mr. Alias Blood Bucket

Chris Huelsbeck

Microsynth

Noslogan

Rogue

Safwan Matni

Accordion

Space Window

Artphase

Jorgen Aase

EnergyXT

Northern Beat Audio

Monolisa

Algo

String Synth

Concrete FX

Rock

EVM Synths

Bassline Ultrasonique Syncoder

Simple Media

Spookeys

Jack Resweber

Phone

Plugsound

Plugsound Free

HG Fortune

X-Fortuna Lazer Blade protoplasm

Effects:

Kjaerhus Audio

Classic Chorus Classic EQ Master Limiter Classic Verb Classic Phaser Classic Delay Classic Auto-Filter Classic Flanger

Simulanalog

Rednef Twin JCM900 TubeScreamer BossDS1 BossSD1 PS1 Univibe

Buzz Room

Filter One BUZ Octo Buzz Bcheese

Ohm Force

Fromage

Soundfonts

Mr Trump

4-Front Technologies

Mastering Bundle

Appendix B - Audio Interface Control Panel

The Control Panel will be available from your system tray (typically located at the bottom right hand corner of your screen near your clock).

Double click on the icon to open the audio interface hardware settings.

Sample Rate: Drop down the menu to select the sample rate – 44.1, 48, 88.2, 96k. This must be set to the same sample rate in your recording software.

Clock Source: Drop down the menu to select the digital sync source.

INTERNAL SPDIF: Must be selected to use the SPDIF input.

Note that Control Panel settings will be saved upon power down.

Latency: – Sets the amount of delay time (1.5ms – 24ms). Latency is the time it takes for the computer to process audio. Lower latency settings demand more CPU resources. In the case of inconsistent audio, (i.e. drop outs, pops and clicks, digital distortion, etc) we recommend that you increase this setting.

Input Level Boost

6		- Input Le	vel Boost)
	- Mic 1 -	- Mic 2 -	Line 3	Line 4	L
l					J
					R
			Drag	Somme A	n٨

Input Level Boost: clicking this button will boost the input level of each corresponding analog input by +12dB. Use this feature for recording quiet instruments

AUDIO INTERFACE CONTROL PANEL ADVANCED SETTINGS:

You can "right-click" on the control panel icon to select between three different computer optimization settings. These settings optimize the buffers and audio streaming settings based on the speed of your processor. If you are experiencing audio drop-outs, it is recommended that you select a lower CPU setting.

- High: 2GHz and higher
- Medium: 1GHz to 2GHz
- Low: 800MHz to 1GHz

Audio Interface Mixer Panel

The interface includes a software MIXER/ROUTER for flexible monitoring and routing of the audio signal before it hits your software program. This is helpful to avoid the time it takes to process the audio you are recording – called latency. Therefore, you can mix the input signal going into the interface with the playback from your software for zero latency recording and monitoring.

Note: The default settings (pictured above) for the interface mixer has all faders set to 0dB and all pans set to center, with the Software Playback set to channels 1/2, the Mixer Output set to Bypass, and the Playback to Phones set to channels 1/2.

To set up your Mixer application for zero latency recording (example):

1. Record enable your desired track – turn off input monitoring function (or

mute the track) in your software.

2. Select playback channels of the main output of your audio software in the SOFTWARE PLAYBACK channel of the interface mixer. The input on this channel will be the output of your software.

3.Connect your microphone to input 1 and turn on phantom power if needed.

4. You can now adjust the levels of your microphone and your software playback to your desired levels for recording (monitoring only).

5. If using headphones select "Mix" under "Mix to Phones". This will send the output of the Mixer to the headphone output.

6. In the MIXER OUTPUT section of the interface Mixer, select the pair of outputs to send out of the interface (for example studio monitors connected to outputs 1/2).

OPERATION OF MIXER

The silver tracks represent the six possible inputs from the interface as well as the software playback. The blue section contains information on the output of the mixer.

Pan (green vertical line.) You can click-drag the pan (stereo image) of each input by moving the green vertical line to the left or right. Double clicking on the green line will reset the pan to the center. Holding down ALT or CTRL, or SHIFT while dragging PAN, puts PAN into fine mode for more accurate adjustment of PAN.

Level (fader) – Adjusts the input level of each input. Double clicking on the blue fader automatically sets the fader to full gain.

Solo - by pressing Solo, all other input channels are muted.

Mute – Mutes input channel.

Link – links the input gain of adjacent channels. If the two channels do not have the same level when the link button is pressed, clicking on one of the faders will send the other input level to the same level as the channel that was clicked on.

Input (software playback channel) – This is the audio return from your audio software. The same functions are available as the other inputs including PAN (balance between left and right channels), LEVEL, SOLO and MUTE. This is a stereo channel. This channel picks up the audio stream that is sent from your software and enables you to mix it with the direct input of your FIREBOX.

<u>PLAYBACK</u> – Indicates the stereo stream output channels from your software.

OUTPUT SECTION

Output Level (fader) – Adjusts the output level of the mixer.

Global Solo Clear – Clears (ON) or restores (off) solo's that have been selected in input channels.

<u>Global Mute Clear</u> – Clears (ON) or restores (off) mute's that have been selected in input channels.

<u>Playback to Phones</u> – selects the audio stream output coming from your software.

<u>Mix to Phones</u> – Pressing this button sends the Mixer's zero latency output to the headphones.

<u>Mixer Output</u> – sends the output of the mixer to the selected pair of outputs on the FIREBOX.

Save - enables you to save your mixer setups.

Load – loads your mixer setups. (note that you must first save a mixer setup before you load one.

Appendix C - Sound Presets

VST Instruments

Accordion: Accordion Emulator - Acoustic-Klezmer, Polka, Zydeco, Tejano, World- Beirut, Weird Al

Addictive Drums: Multi-Timbral Drum Sampler - Drums- Rock, Pop- Any

Artphase-VSTi: Phase Distortion Synth - Lead, Trance, Spacey, Tangerine Dream, Orbital

BB303i: *Classic 303* - Bass, Synth- Lead, Bass- House, Techno, Acid- Old Skool Hip-Hop (West Coast), Heaven 17

Blood Bucket: Synth- Lead, Ambient Sounds- IDM, Glitchcore, Illbient- Kid 606, Venetian Snares

Crystal: *Subtractive/ FM Synth* - Lead, Pads, Ambient Sounds- Trance, Ambient- Brian Eno, Jean-Michaael Jarre

Cubix: Drum/Bassline Synth - Drums, Synth- Electro, House- Kraftwerk, Depeche Mode

DirectWave VSTi: *Multi-Timbral Sampler* - Samplers- Electronic, Hip-Hop- Any Discovery_v2: Analog Subtractive Synth- Lead, Pads- Techno, Ambient- Erasure, Dust Bros.

EVM Bassline v1-3: Acoustic Bass Synthesizer - Acoustic- Rock, Pop

EVM Syncoder 32-2: *Frequency Synthesizer/* Vocoder- Lead, Vocoders- Electronic, Experimental-Thomas Dolby, Daft Punk

EVM UltraSonique: *Synthesizer*/ Sample player- Lead, Pads, Samplers- Electronic, Pop- Air, Van Halen's 1984

HighLife: Sampler- Samplers- Any- Everyone

Lallapallooza_lite: FM Synth- Lead, Pads- Experimental, Industrial- Front 242, Merzbow

MicroSynt: *PWM Synth* - Lead- Electronic, Any- Basic synth sounds

Mini_ErHu: String Synth- Acoustic, Lead- Scary Movie Music

Minimal: Drum/ Bassline Synth- Drums, Synth- Acid, House- Rebirth

Monolisa: Bass Synth- Lead, Bass- Electronic- generic

Motion2.8: Automated Modulation Synth- Lead, Pads, Ambient Sounds- Dust Bros,, soundtrack music

Mr. Alias: Noise Synth- Ambient Sounds- IDM, Experimental- Alec Empire, Kid 606

MrRay22: Electric Piano Synth- Lead, Acoustic- Pop, R ; B, Any- everybody

MrRay73: *Rhodes-Style Piano Synth-* Lead, Acoustic- Pop, R ; B, Rock, any- Ray Charles, everyone else

MrTramp: *Wurlitzer-style Piano Synth-* Lead- Pop, R ; B, Rock- Supertramp, Three Dog Night, Fela Kuit

Nanotron2: Novatron/Mellotron emulator- Lead- Rock, Pop- The Moody Blues, David Bowie

Optik: Drum Synth- Drums- Electronic, Techno- Kraftwerk, Nitzer Ebb

ORGANized_trio_v30: *Hammond Organ emulator*- Lead- Gospel, Rock, R ; B- Jimmy Smith, Al Green, MMW

Pandemonium-2: FM Synth- Pads, Ambient Sounds- IDM, Experimental- unknown

phOne: PM Synth- Lead, Ambient Sounds- Electronic, Experimental- Various DHR Artists

Phadiz(P): PD Synth- Lead, Pads- Electronic, Ambient- Vangelis, The Orb

Plugsound Free: Multi-Instrument Sound Module- Lead, Misc- All Genres- Any Artist

ProteusX: Multi-Instrument Sample Player- Lead, Misc- All Genres- Any Artist

ProtoPlasm21free: *Multi-timbral synth*; Lead, Pads- Electronic, Experimental- Orbital, Little Computer People

Purity: Mulit-Instrument Sample Player- Lead, Pad, Bass, Drums, Misc- All Genres, Any Artist

RealGuitar2SE (Demo): Acoustic Guitar Sample Player- Lead, Acoustic- Rock, Pop- Any

ReZ v.1.3: PM Synth- Lead, Bass- Techno, Industrial- Daft Punk, NIN

Rock: Multi Mode Synthesizer- Lead, Pads- Electronic, Techno- Depth Charge, Prodigy

Rogue: Synth- Lead- Electronic- Any

Spook Keys: *Theremin*- FM Synth- Lead, Ambient Sounds, Rock, Electronic, Experimental-Stereolab, Pink Floyd

StringSynth: ARP/Solina String Synth emulator- Lead, Acoustic, Ambient Sounds- Air, Pink Floyd

Super Spook Keys: *Theremin Emulator*- similar to Spook Keys with more options- Lead, Ambient Sounds, Rock, Electronic, Experimental- Stereolab, Pink Floyd

TickyClav: *Clavinet Emulator*- Lead- Rock, Pop, Funk- Mates of State, Stevie Wonder, The Commodores

TruePianos: *Piano Module*- Lead- Rock, Pop, Classical- Alicia Keys, Elton John String Theory 1.5: String / Hybrid Synth- Lead, Ambient Sounds- Rock, Pop, Electronic, Ambient

STS-26: *FM Synth*- Lead, Pads, Ambient Sounds- Electronic, Ambient- The Orb, Black Dog Productions

Suburban Guitarist: Guitar Simulation Synth- Lead, Acoustic- Rock, Pop- Any

Sun Ra: Hybrid Synth- Pads, Ambient Sounds- Electronic, Experimental-The Orb, The Moody Blues

Sylenth1: VA Synth- Lead, Pads, Bass, Ambient Sounds- Electronic, Pop, Ambient- Yello, New Order

Synth1 VST: VA Synth modeled after Nord Lead2- Lead, Bass- Electronic, Pop, Hip-hop- Autechre, RZA, Peter Gabriel

VB3_OLse: *Virtual Tonewheel Organ*- Lead- Rock, Pop- Question Mark and The Mysterians, Elvis Costello

Vertigo: *Spectral Synthesizer*- Lead, Pads, Ambient Sounds- Electronic, Experimental- Alec Empire, Various 80's Video Games

Wusikstation: FM Synth- Lead, Bass, Pads- Electronic, Pop- New Order, J Saul kane

Wusikstation Multi-Out: *FM Synth with Multiple Outputs*- Lead, Bass, Pads- Electronic, Pop- New Order, J Saul kane

XWOF-3: *Multipart, Multiinstrument complete music System*- Lead, Bass, Pads, Drums, Misc-Electronic- Boards of Canada or any One AD artist.

VST Effects

4Front Auxiter: Mastering ; EQ; Exciter/Refresher- Enhancing Vocals, Track Restoration

4Front Contour Max: Mastering ; EQ; Frequency Shaper- Use For Final Mastering and Track Restoration

4Front Sand Brush: Mastering ; EQ; High Frequency Booster- Track Restoration, Vintage Vinyltype Effects, Good for Vocals

4Front XLimiter: Mastering ; EQ; Soft Compressor- Use for Vocal or Master Track Compression

4Front YLimiter: Mastering and EQ; Hard Compressor- Use for Drum/Percussion Tracks and Effects

BCheese: Filters; LFO Driven Filter Set- Good For Synths- Use to create sweeps and other effects

Boss DS-1: Distortion; Distortion Stomp Pedal Simulator- Useful for String Instruments

Boss SD-1: Distortion; Super Overdrive Stomp Pedal Emulator- Creates ;Over-driven Tube Amp; effect. Useful for String Instruments

BUZ: Distortion; Distortion Stomp Box Emulator- Useful for String Instruments

Classic Auto-Filter: Filters; Four-pole LFO Modulated Filter- Use to Create Sweeps and Other Strange Effects

Classic Chorus: Filters; Adds Depth To Almost Any Type of Track

Classic Compressor: Mastering; Analog-style compressor- adds warmth and punch to Vocal Tracks

Classic Delay: Delays ; Reverbs; Full Featured, Multi-Purpose Delay

Classic EQ: Mastering ; EQ; 7-Band Analog-style Multi-purpose equalizer Classic Flanger: Filters; Adds ;Swirling;-type effect- Useful for Guitar Type Sounds Classic Master Limiter: Mastering ; EQ; Extremely Simple Sonic Booster Classic Phaser: Filters; Analog Phase Shift Emulator- Many Uses, Sounds Good on Vocals Classic Reverb: Delays and amps; Reverbs; All-Purpose Reverb EVM V90: Delays ; Reverbs; Digital Delay and Reverb Module Frohmage_vst2win: Filters; Unique Resonance Filter- Produce EXTREME Effects JCM900: Amps; Vintage Marshall Tube Amplifier Simulator- Adds Warmth to Guitars and strings MrDonald: Amps; Panning; Rotary (Leslie) Speaker simulator- Multi-Purpose OctBUZ: Distortion; Distortion/ Overdrive Module with Octave Adjustment PS-1: Filters; Simulated Oberheim Phaser Stomp Box Rednef Twin: Amps; Simulated 1969 Fender Twin Reverb Guitar Amp Tube Screamer: Distortion; Simulated Overdrive Stompbox Univibe: Filters; Simulated ;Modulation; Stompbox- Provides Reverb/ Phaser Type Effects

General Sound Libraries

1×1	VBOARD		8	Mr Tramp	Mr Tramp	02	8 Purity	TineEP 3
			8	Purity	Drive Wurly	8	9 Purity	TineEP 4
1-K	evboard / 01-Acous	stic Piano	90	Punty	MellowEP	8	0 Purity	Tiny Shiny
Por	his trum ent	Preset Name	é	Wusik Station V3	Classic Wurly	8	1 Puntty	TomorrowVEP
8	Truepienos	Diamond Jazz	92	Purity	PrettyP ad	8	2 Purity	VEP+Sbell
8	Truepianos	Diamond Classical	ŝ	Wusik Station V3	WurtyHeaven			
002	Truepianos	Diamond Rock	94	Purity	Pretty Suitcase	έ	Keyboard / 04-Clavine	
8	Truepianos	Emerald Default	015	Purity	Velo Virtage EP	2	r instrument	Preset Name
8	Truepianos	Emerald Blues	98	Purity	Virtage EP 1	8	0 Ticky Clav	Ticky Clav
005	Truepianos	Diamond Cloudy	6	Puntty	Virtage EP 2	8	1 Purity	Clavinet 1
80	Truepianos	Diamond Pop	ŝ	Purity	Virtage EP Pad	8	2 Purity	Wah Clavinet
200	Truepianos	Emerald Clean	88	Purity	Motive Tea Bee Step	8	3 WusikStation V3	Funky-Clav-Bass Lite
800	Truepianos	Emerald Classic	8	Purity	Motive Hip Bee	8	4 Purity	Funky Clavinet
600	Purity	90's Layer Key	8	Purity	GM Electric Piano 1	8	5 Ticky Clav	Funky Beast
g	WusikStation V3	Emotive Grand Piano	_			8	6 WusikStation V3	Vox Beast
5	Purity	Acoustic Piano	5 ¥	eyboard / 03-Synth	Electric Piano	8	7 Punity	Superboard Clav
912	Purity	Dance Chord	Š	Instrument	Preset Mame	8	8 Ticky Clav	Headhunters
613	Purity	Dawn Breeze	8	Purity	FMEP	8	9 WusikStation V3	Claw
944	WusikStation V3	Simple Lite Plano	8	Purity	1 st impression	2	0 Purity	Metallic Clav
015	Purity	Drama	8	Punty	70's Layer Key	5	1 Ticky Clav	The Duck
016	Purity	Delay Piano	8	Putty	Breath V.EP	2	2 WusikStation V3	Thin Clavi
210	WusikStation V3	Pisno and Viola	8	Purity	GM Electric Piano 2	5	3 Ticky Clav	Manual Wah Clav
018	Purity	Latched Pienos	8	Purity	Chorus FM	2	4 Purity	Clav AutoWAH
019	WusikStation V3	Piano Voices	8	Purity	Class Dyno	2	5 Ticky Clav	Muted Clav
020	Truepianos	Diamond Vanilla	8	Purity	CheapEP	2	6 WusikStation V3	Clav Pad
5	Purity	Glory Pisno	8	Purity	Delay Tine	2	7 Purity	GM Clavinet
022	Purity	Horky Tonky	8	Purity	Digital EP	2	8 Ticky Clav	Funky Comp
023	WusikStation V3	Piano Bar (Lite)	8	Purity	Dream EP Pad	5	9 WusikStation V3	ClavOne More Time
024	Purity	Lowpassed Plano	ŝ	Purity	Dyno EP 1	8	0 Ticky Clav	Lunar FX
025	WusikStation V3	Piano Bar	8	Purity	Dyno EP 2	8	1 WusikStation V3	Clav and Vox
026	Purity	Minorutic	8	Purity	Dyno EP 3	8	2 Purity	Reso Clav 1
027	Purity	Piano & Nylon	8	Purity	FM Keys	8	3 Purity	Reso Clav 2
028	Truepianos	Diamond Warm	912	Punty	FM Tine	8	4 Purity	RainbowClav
029	Trueptenos	Emerald Bught	8	Punty	Glassy Layer	-		
			5	Punty	Hamonic EP	5	Keyboard / 05-Harpsic	shord
ž	eyboard / 02-Real E	Electric Piano	ŝ	Purity	Key 80	2	r instrument	Preset Name
ş	Ans trum ent	Preset Name	68	Purity	LA Tine	8	0 Purity	Harpsichord
8	Mr Ray 73	Mr Ray 73	8	Purity	Mood EP	8	 WusikStation V3 	Bach Harpsichord
§	Purity	60's Layer Key	8	Purity	Morning Star	8	2 Purity	Harpsi Hall
80	WusikStation V3	DB Rhodes Vel 2	8	Purity	Electric Grand Piano	8	3 WusikStation V3	Grand Harpsichord Keys
8	Mr Ray 22	Welcome	g	Punty	Nymph EP Pad	8	4 Purity	GM Harpsichord
004	WusikStation V3	DR Rhodes	8	Punity	Phase Chord	8	5 Purity	Ocean Harpsichord
002	Purity	Digi Wurty	88	Punty	Stage MOD Piano	8	6 Purity	Harpsichord+4
8	Purity	Dirty Suitcase	8	Putty	Tine EP 1	_		
6	WusikStation V3	Rhodes 73	8	Purity	Tine EP 2	_		

02-ORGAN		02-Organ / 02-Pipe Org	an	025 WusikStation V3	Rhodes B3
		NDr Instrument	Preset Name	026 ORGANIZEd Trio 3	Grandpa's Blues
02-0 roan / 01-Electric C	Iroan	000 Purity	Cathedral	027 Purity	WrestleLee 7 S
Nor lestrament	Preset Mame	001 Wusik Station V3	Pipe Organ	028 Purity	WrestleLee 7 F
000 Purity	E.Organ 1	002 Purity	Pipe Organ	029 ORG ANized Trio 3	Deep Rock
001 WusikStation V3	Jazz Organ	003 Puntty	Pipe Organ High	030 Purity	Wrestle Lee 8 S
002 Purity	E.Organ 2	004 WusikStation V3	Trippy Church	031 Purity	Wrestle Lee 8 F
003 Purity	E.Organ 3	005 Purity	Pipetek	032 ORG ANized Trio 3	Keith's Pidures
004 Purity	Classic Organ	006 Purity	Full Pipe	033 ORGANIZEd Trio 3	In Rock
005 WusikStation V3	Rock Organ	007 Purity	Orgel	034 Purity	Joey Slow
006 Purity	E.Organ 4	008 Purity	Mini Fugue	035 Purity	Joey Fast
007 Purity	E.Organ 5	009 Purity	Flute Pipe	036 ORGANIZEd Trio 3	Cocktail
008 WusikStation V3	Klbass n Organ	010 Purity	String Pipe	037 Purity	Leslie Noise Slow
009 Purity	E.Organ 6	011 Purity	ReedPipe	038 Purity	Lestie Noise Fast
010 Purity	Feedbacker	012 Purity	PraSing Flute	039 ORG ANIZEd Trio 3	Slow Panning
011 Purity	Wide Slow	013 Purity	GM Church Organ		I
012 WusikStation V3	Oscorgan	014 Purity	GM Reed Organ	02-Organ / 04-Accordion	
013 Purity	Wide Mid			NDr instrament	Preset Name
014 Purity	HandDrive Organ	02-Organ / 03-Drawbar	Organ	000 Accordion	Accordion 1
015 WusikStation V3	Casio Organ	NDr Instrument	Preset Name	001 Purity	GM Accordian
016 Purity	Rock Organ	000 ORGANIZEd Trio 3	Blues for Jimmy	002 Accordion	Accordion 2
017 WusikStation V3	Furny Barrel Organ	001 Punty	Blue Jimmy Slow	003 WusikStation V3	Geek Accordion
018 Purity	Virtage Organ	002 Purity	Blue Jimmy Fast	004 Purity	Accordion 3
019 Purity	Too Much Vib	003 Wusik Station V3	Full Draw	005 Purity	Accordion 1
020 WusikStation V3	Full Organ	004 ORGANIZEd Trio 3	European Seventies	006 Accordion	Accordion 3
021 Purity	Tine Organ	005 Purity	Wrestle Lee 1 S	007 Accordion	Accordion 4
022 Purity	Orgel	006 Purity	Wrestle Lee 1 F	008 Accordion	Accordion 5
023 Purity	Solo Drive Slow	007 Wusik Station V3	Far B3s	009 Purity	Accordion 4
024 Purity	Solo Drive Fast	008 ORGANIZEd Trio 3	Full	010 Accordion	Accordion 6
025 Purity	Soft DrawSlow	009 Purity	Wrestle Lee 2 S	011 Purity	Accordion 2
026 Purity	Soft Draw Fast	010 Purity	Wrestle Lee 2 F	012 Accordion	Accordion 7
027 WusikStation V3	Simple One	011 ORGANized Trio 3	My Uncle	013 Purity	Accordion 5
028 WusikStation V3	Simple Two	012 Purity	Wrestle Lee 3 S	014 Accordion	Accordion 8
029 Purity	Clean Slow	013 Punty	Wrestle Lee 3 F	015 Accordion	Accordion 9
030 Purity	Clean Fast	014 ORGANized Trio 3	Pirk Echoes	016 Purity	Mini Fugue
031 WusikStation V3	Simple W Raw1	015 ORGANIZEd Trio 3	Gospels	017 Accordion	Accordion 10
032 WusikStation V3	Simple W Raw2	016 Purity	Wrestle Lee 4 S	018 Accordion	Accordion 11
033 WusikStation V3	D50 Orgrain	017 Punity	Wrestle Lee 4 F	019 Accordion	Accordion 12
034 WusikStation V3	Starvox	018 ORGANIZEd Trio 3	One Wheel	020 Accordion	Accordion 13
035 WusikStation V3	Starwox 2	019 Punty	Wrestle Lee 5 S	021 Accordion	Accordion 14
036 WusikStation V3	Distorted 1	020 Purity	Wrestle Lee 5 F	022 Accordion	Accordion 15
037 WusikStation V3	Distorted 2	021 ORGANIZEd Trio 3	In Church		
038 WusikStation V3	3 Pole Lead	022 Wusik Station V3	MixedB3		
039 WusikStation V3	Goodbye Mozes	023 Purity	Wrestle Lee 6 S		
		024 Purity	Wrestle Lee 6 F		

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0.0-00	WK		58	Duritu	Stagg son Gunar		0.455 / U.C.C. ROCUTE, D.45	Denat Name
			3				Wallon civ	ALIER CALIFORNIA
03-Cu	itar / 01-Acoustic	c Gurtar	5	V//usik Station V3	Stagg Treble Guitar	8) Monolisa	Electric Bass
Nor	his trannent	Preset Mame	98	Purity	Hamonic Delay	8	WusikStation V3	202 Bass
000	PlugSoundFree	Spanish Guiter	8	Wusik Station V3	Stagg Hard Guitar	8	2 Purity	Naruse Attack
00	ourity	AC Nyion Guitar				ö	WusikStation V3	Another Bass
002 \	MusikStation V3	Guitar Dynamic Layer	03-0	uitar / 03-OverDriv	e Electric Guitar	8	Monolisa	PortaBass
003	burity	Almo Steel	ş	instrument	Preset Name	ë	5 WusikStation V3	Picked Bass
004	ourity	12-String Guitar	8	Purity	Dist Lead Sus	ğ	6 Purity	E.Bass 02
005 \	MusikStation V3	Picked Mic Guitar Dyn	8	Purity	Dist Lead Cho	00	WusikStation V3	2 Besses
900	ourity	Nylon&Ham (Split)	8	Purity	E.G Overdrive	ö	8 Purity	EB. Dist Pick
1 200	MusikStation V3	Double Guitar	8	Purity	DIYOD	80	WusikStation V3	Funk Bass
800	outly	Cute Pluck	8	Purity	OD Flag	000) Monolisa	Funk y Bass
600	MusikStation V3	Amp Guitar Slaped	8	Wusik Station V3	Distorted 1	5	WusikStation V3	Pluck Bass
010	ourity	F M P luck	8	Purity	OD Wah	5	Purity Purity	Dual Tube
011	MusikStation V3	Picked Mic Guitar	8	Purity	Dist Trem	5	WusikStation V3	Digi Bass 2
012 1	ourity	Harmonic Delay	8	Purity	Dist Back 1	01	H Purity	E. Bass 07
013 \	MusikStation V3	6 Strings Guitar	8	Wusik Station V3	Distorted Guitar	5	5 Purity	Tube Drive 1
014 1	ourity	Mandolin	융	Purity	Dist Back 2			
015 \	MusikStation V3	Guitar Concerto	δ	Purity	Dist Back Pha	Ŧ	Bass / 03-Synth Bass	
016	ourity	Fruit Nyion	8	Purity	Dist Mute 1	N	Instrument	Preset Name
017 \	MusikStation V3	Guitara	8	Punty	GM Overdrive Guitar	8) Purity	AMUG Bass
018	ourity	Fruit Steel	8	Purity	Distortion Guiter	8	WusikStation V3	Apha Juno - Bass 01
019 \	MusikStation V3	Guitaro				8	PlugSound Free	Synth Bass 1
020	ourity	UMind Nylon	3	ASS		ë	Monolisa Monolisa	Moogie Bass
021	outly	Super AC Guitar				8	Purity	Attack Res 1
022	purity	Wind Nylon	4	ass / M-Acoustic B	455	8	5 PlugSound Free	Synth Bass 3
023 5	ourity	GM Nylon Guitar	ş	instrument	Preset Name	ğ	5 Purity	Dist TV1
024 5	outly	GM Steel Guitar	8	PlugSound Free	Acc. Bass_Vibra	8	WusikStation V3	Apha Juno - Bass 04
025 \	MusikStation V3	Amp Guitar	8	Monolisa	Fretless	ö) Monolisa	SawBass
			8	Purity	AC. Upright Bass	ë	9 Purity	FM Organ Bass
03-Gu	itar / 02-Electric	Clean Guitar	8	Wusik Station V3	Plucked Bass	5) Purity	locout Bass
Nor	his trum ent	Preset Name	8	Purity	Dirty Fretless	5	WusikStation V3	Bass & Beyond
000	PlugSoundFree	LP Twin - Light	8	Purity	Ana BassGuitar	5	Monolisa	HP Sweet
00	urity	Clean Delay	8	Purity	Driving Mrs Big	2	B Purity	Rezo Fat
002	outly	Clean Fig	8	Purity	Glide Bass	5	WusikStation V3	Monophoria (BB)
003	MusikStation V3	Stagg Double EQ	8	Purity	JazzDBass	5	6 Monolisa	Sequencer Bass
004	outly	Clean Pha Dly	8	Purity	Jazz Dbass & Harm			
005	NusikStation V3	Stagg Hard Guitar	8	Purity	Jazz Dhass Harm			
900	urity	Gbsn Clean	δ	Purity	Nice Low	_		
200	MusikStation V3	Stagg Power FX Chorus	8	Purity	Upright Bass			
800	outly	Gbsn Pha	ő	Purity	Stereo Bass Layer	_		
600	MusikStation V3	Stagg Soft Guitar Dyn	8	Purity	Panther Rose			
010	ourity	Dimension Elektrik	8	Purity	The Good Bass	_		
011	outly	Clean Mute	8	PlugSound Free	F retless Pad	_		

05-OR	CHESIKAL		5	Punty	big bang brass	5	humy	GM Hantone Sax
			55	Punty	Layered Sfz	013	Purity	Velo Soprano Sax
05-0 rc	hestral / 01-Strin	50						
Nor A	us trannent	Preset Name	02-0	rchestral / 03-Wood	liwinds	0- <u>5</u> 0	rchestral / 05-Chror	matic Perc
V 000	WusikStation V3	Grande Strings	No.	instrument	Preset Name	No.	ins trument	Preset Name
001 P	lugSound Free	Alp Strings	8	Purity	Flute Vib	8	Purity	Timpari Hit & Roll
002 P	urity	ArooLow	8	Wusik Station V3	Flute 1	0	Punity	Timpari (LR Hand)
003 P	urity	Big Strings	8	Purity	Solo Clarinet	002	Purity	Thai
004 V	WusikStation V3	Shings	8	Purity	Oboe	8	Purity	Agogo
005 P	urity	Chor Strings ENS	8	Purity	Woodwinds & Strings	8	Punity	Bright Mallet
006 P	urity	ST Fast Strings	8	Purity	Tek Bow	80	Purity	Chime
007 P	urity	Marcato 3th	8	Wusik Station V3	Oboe	80	Punity	Digi Tubular
V 800	WusikStation V3	Cinema StringPad	8	Purity	Flute Non Vib	200	Purity	Digi Vibe 1
d 600	urity	Elec Viola	8	Wusik Station V3	Flute	8	Purity	Digi Vibe 2
010 P	urity	Octave Strings	8	Purity	Panfute	8	P unity	Digi Vibe 3
011 V	WusikStation V3	Strings Vox	8	Wusik Station V3	Flute 2	5	P unity	Marimba
012 P	urity	Pizzicato Strings	é	Purity	Piccolo	5	Punity	Marimba Kid
013 P	urity	Legato Hall	8	Wusik Station V3	Flute 3	5	Purity	Metystal 1
014 P	urity	String Ensemble	80	Purity	GM Oboe	613	P unity	Metystal 2
015 P	urity	ST Mid Strings	8	Purity	GM English Horn	014	Purity	Moogy Bell
016 P	urity	GM Vidin	915	Purity	GM Bassoon	015	Punity	Pretty Bell
017 P	urity	GM Vida	918	Purity	GM Clarinet	016	Punity	SameFeel 1
018 P	urity	GM Cello	5	Purity	GM Piccolo	017	P unity	SameFeel 2
019 P	urity.	GM Contrabass	88	Purity	GM Flute	80	Purity	Smallet
020 P	urity	GM Tremolo Strings	80	Purity	GM Recorder	019	Punity	Steeldrums
021 P	urity	GM Pizzicato Strings	80	Purity	GM Pan Flute	020	Punity	Sylophone
022 P	urity	GM Strings	8	Punity	GM Blown Bottle	21	Purity	Tin Cup
023 P	urity	GM Slow Strings	8	Purity	GM Shakuhachi	022	Purity	Vibe Bells
		Ē	8	Purity	GM Whistle	623	Purity	Vibra Handbell
05-0 rc	hestral / 02-Bras	9	8	Purity	GM Ocanina	024	Purity	Vibraphone
Nor 1	ns trannent	Preset Name						
000	ambi	Power SF Z Brass	02-0	rchestral / 04Reed	0			
00	urity	GM PowerBrass	Ň	his traiment	Preset Name			
002 P	urity	Pop Brass	8	Puntty	Solo Tenor			
003	urity	Rich Brass	8	Wusik Station V3	Sax a lot			
004 P	urity	Sax & Brass ENS	8	Purity	Hard Atto VIb			
005 P	urity	Sfz Bowed Brass	8	Purity	Hard Soprano			
900	urity	Sfz Shap Attack	8	Purity	Hard Tenor			
007 P	urity	Orchestra Brass 2	8	Purity	Soft Allo			
008 P	urity	OrdhBrass & Strings	8	Punty	Solo Alto			
d 600	urity	Kasiofea	8	Purity	Solo Soprano			
010	urity	JV Section Brass	8	Purity	Velo Soprano			
011 P	urity	Horn & Strings ENS	8	Purity	GM Soprano Sax			
012 P	urity	Hero Brass	8	Purity	GM Alto Sax			
013 P	urity	Sfor zando	9	Purity	GM Tenor Sax	_		

06 10	UCALS & CHOIDS		04.4 10.6	ieit Station V2	Monchoix	07.0	arth / 02 Slow Starth	
	NUMPS & MININ	2	MS P	wity	SlowChoir	No.	ins transat	Procet Name
04-20	Acale & Choire / 0	1.Vocale	MB P	A.L.	GM Choir Jahs	9	Durito	Factination
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è	RIS CIUITION C	Preset Mame		ALL N	GM Voice Uons	3	Plugsound Free	lime superior
8	WusikStation V3	LowVoice	018 Pu	Inty	GM Synth Vox	000	WusikStation V3	Apha Juno - Monum. Pad
§	WusikStation V3	Aktivitak 1	019 W	usik Station V3	Ghosts Choir	8	Purity	Angel Phrase
80	WusikStation V3	Aktivitak 2	020 VM	usik Station V3	Ice Choirs	004	Purity	Oxygen Split
ŝ	WusikStation V3	Dotsen 1				005	Purity	Ice Cavern
80	WusikStation V3	Dotsen 2	NVS-T0	E		8	Purity	Analog P.AD
005	WusikStation V3	KRMA Darla Phrase 01				200	Purity	Atlantis
900	WusikStation V3	KRMA Darla Phrase 02	07-Synt	h / 01-Fast Synt	-	800	WusikStation V3	Ambient Landscape (BB)
200	WusikStation V3	KRMA Darla Phrase 03	NOV RE	strument	Preset Name	600	Purity	Dawn of an Ade
8	WusikStation V3	KRMA Darla Phrase 04	D00 Pu	utty	Vstiz	010	Purity	Russian Sub
600	WusikStation V3	Druck 1	00 1 1 1 0	agSound Free	Like You	011	Purity	Rezotic Pad
99	WusikStation V3	Druck 2	002 W	usik Station V3	OrbitalSynth (kraff)	012	WusikStation V3	Blue (Softegg)
ġ	WusikStation V3	Druck 3	003 Pu	with	Zump	013	Purity	Juletee
012	WusikStation V3	KRMA Darla Phrase 05	84 PU	Inty	TranceG ate	64	Purity	Pad and Lead
93	WusikStation V3	KRMA Darla Phrase 06	005 W	usik Station V3	Hybrids KRMA - Stack 01	015	Purity	PairRight(Mod)
94	WusikStation V3	KRMA Darla Phrase 07	006 Pu	inity	Fat and Juicy	016	WusikStation V3	ComboPad (kratF)
015	WusikStation V3	KRMA Darla Phrase 08	W 200	usik Station V3	Infected (softegg)	017	Purity	Deep Blue See
918	WusikStation V3	Electrico 1	008 Pu	inty	Plagiarism UI	018	Purity	Deep Sea Explorat
26	WusikStation V3	Electrico 2	00 Pu	urity	Phoenix	019	Purity	Koei S-6
93	WusikStation V3	Elektrik 1	010 Pu	Inty	Planet 138	020	WusikStation V3	Eradicate (kraftF)
60	WusikStation V3	Elektrik 2	011 Pu	Inty	PWVM Step	021	Purity	Misty Temple
020	WusikStation V3	Elektronen	012 Pu	urity.	Orade	022	Purity	Moving Bells
621	WusikStation V3	KRMA Darla Phrase 09	013 Pu	Inty	Synth Key 2	023	WusikStation V3	H.KRMA - Future Pad 01
622	WusikStation V3	KRMA Darla Phrase 10	014 W	usik Station V3	LoFi Reaktor - BezSynth	024	Purity	Elektrik Homeland
023	WusikStation V3	KRMA Darla Phrase 11	015 Pu	inty	SynGate-2	025	Purity	Holy Breath
			016 Pu	Inty	Lovely Japanese G	026	Purity	Insects
P-90	ocals & Choirs /0	2-Choirs	017 Pu	Inty	Hypertek	027	Purity	Ghost Machine
Ņ	his trum ent	Preset Name	018 Pu	Inty	Zdd	028	WusikStation V3	H.KRMA - Future Pad 05
8	WusikStation V3	Vienna Choir Slow	019 Pu	urity	Detune 4+16	029	Purity	Heaven's Chorus
§	Purity	Air Ah	020 M	usik Station V3	LoFi Reaktor - JP Prophet	8	Purity	Sky PadBrass
002	PlugSound Free	Zephyra	001 Pu	Inty	FatLayer	8	WusikStation V3	H.KRMAFuture Pad 09
ŝ	WusikStation V3	Vienna Choir	022 Pu	inty	Tek Cat(hold)			
8	Purity	Air Glass	023 Pu	Inty	Big Ana Brass			
88	WusikStation V3	Och_Chair	024 W	usik Station V3	LoFi Reaktor - JP Rezz			
8	Purity	Choir Ens	025 Pu	urty	Cheese 1			
6	WusikStation V3	Ash Choir Slow	026 Pu	inity	Shit sor bright			
8	Purity	Choir Ensamble	027 Pu	Inty	Robotics Factory			
8	Purity	Holy Breath	028 W	usik Station V3	LoFi Reaktor - Phat 2K			
53	WusikStation V3	Boy Chair Slow	029 Pu	inty	Gas Tank			
5	Purity	Megatek Choir		usik Station V3	Apha Juno - Monument			
66	WusikStation V3	CH Choir Send Ab	001 PU	Infly	Lowbudget Sail			
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07 C.m	44 / 02 1 and		C Motion 20	SlowDence	1000 Million VO	Oun The Coord Hone
10 m	and the second	Concept Manual	OC UNITED TO	The Maria	040 Ministration V	Cop Tripalo in State
		augur vacar	077 1010 MI 470			
000	urity	Hard FM Lead			011 WuskStation V3	Ghostship Wrecked
00 0	urity	Air in Dimension	08-World		012 WusikStation V3	lce Fatamorgana
002 P	urity	Analogus			013 WusikStation V3	Intimate Noise
003 P	urity	Autumn	08-World /01-Ethnic		014 WusikStation V3	Meet my Spaceship 2
004 P	urity	Pancarina Duet	Nov instrument	Preset Name	015 WusikStation V3	Methal Whale
005 M	WusikStation V3	Back 2 Back Lead [BB]	000 PlugSound Free	Dabro		
006 P	urity	Fat Draken 2	001 Purity	GM Shakuhachi	09-SFX/03-Hits	
Q07 P	urity	Dist RezSaw	002 Purity	GM Shamisen	Nor instrument	Preset Name
008 M	WusikStation V3	Digital - Lead01	003 PlugSound Free	Hamonica Light	000 WusikStation V3	Star Hits
000 P	urity	Good Tire	004 Purity	GM Koto	001 Purity	GM Orchestra Hit
010 P	urity	Lucky Emerson	005 Purity	GM Bagpipe	002 WusikStation V3	Noise Hits 2
011 W	WusikStation V3	H KRMA - Analog SaveOI	006 Purity	GM Siter	003 WusikStation V3	Noise Hts
012 P	urity	PW for president	007 Purity	GM Banjo	004 WusikStation V3	CX Hits 2
013 W	NusikStation V3	H.KRMA - Metidown 1	008 Purity	GM Kalimba	005 WusikStation V3	CX Hits 3
014 P	urity	PWM-Phase	009 Purity	GM Shanai	006 WusikStation V3	CX Hits 4
015 W	WusikStation V3	H.KRMA - Multi Rezo1	010 PlugSound Free	Sitar Light	007 WusikStation V3	CX Hits 5
					008 WusikStation V3	CX Hits 6
07-Syn	hth / 04-Motion		09-SFX		009 WusikStation V3	CX Hits 7
NDY A	ns trum ent	Preset Name			010 WusikStation V3	CX Hits
× 000	WusikStation V3	Another Voxy	09-SFX / 01-Matural FX		011 WusikStation V3	Hit Me
001 P	urity	TranceG ate	NDv Instrument	Preset Name		
002 M	10tion 2.8	Behind The Gates	000 Purity	GM Seashore		
003 E	WM UltraSonique	lonizer	001 WusikStation V3	Cave Ambient		
004 W	WusikStation V3	Ancient Voices	002 Purity	Bird Tweet		
005 M	10tion 2.8	Distorteridoo	003 Purity	SFXK0		
006 E	WM UltraSonique	offog	004 WusikStation V3	Spring Rain [BB]		
V 200	WusikStation V3	Arpquence-01	005 Purity	GM Telephone Ring		
008 M	10tion 2.8	Drift	006 Purity	GM Helicopter		
009 E	M UltraSonique	Studio Sensation	007 Purity	GM Gun Shot		
010 M	fotion 2.8	Mystery	008 PlugSound Free	GM Guns Shots		
011 V	WusikStation V3	Belishus				
012 V	WusikStation V3	Certarus	09-SFX / 02-Synth FX			
013 M	fotion 2.8	Proper Motion TC	NDv Instrument	Preset Name		
014 E	WM UltraSonique	Tracer	000 Wusik Station V3	Banboo Forest Night		
015 W	WusikStation V3	Connandys Galaxy	001 Wusik Station V3	Book of Crickets		
016 M	10tion 2.8	Pulsar 2	002 Wusik Station V3	Breath Of Ghost Birds		
017 E	M UltraSonique	Ultrasonique	003 WusikStation V3	Breath Of The Wizard		
018 W	WusikStation V3	Factorus	004 WusikStation V3	Bulgarian Lift Off		
019 P	urity	F aux Gate	005 WusikStation V3	Busy Savannah		
020 W	WusikStation V3	Scratch and Sniff	006 WusikStation V3	Chants of Love Birds		
021 M	flotion 2.8	Rezistance	007 Wusik Station V3	Country Side		
022 W	WusikStation V3	Seq-MVV Adds Choir	008 WusikStation V3	Cradle Of Novas		

10-DRUMS		8	Purity	Dinension	014 Pum		GM Tarko
		8	Wusik Station V3	BigBeat	015 Wusi	KStation V3	See_our_78
10-D rums / 01-Acoustic	Drums	8	Purity	Escatowing			
Nov Instrument	Preset Name	8	Wusik Station V3	BlakSheep	10-Drums	/04Loops	
000 PlugSoundFree	Jezzy Drum Kit Light	8	Purity	Helium	NDY MIST	ument	Preset Name
001 Purity	Big Fat Cat	g	Wusik Station V3	break beats 110	000 Purity		Muscle March
002 WusikStation V3	BakDoor	δ	Purity	Hydrogen	001 Purity		Count Start
003 PlugSoundFree	Furk mini Kit	8	Wusik Station V3	Criminal Kit	002 Purity	,	Life on the Way
004 Purity	12.874 Km	ŝ	Purity	I Remind You	003 Purity		Erotic Creeper
005 WusikStation V3	Before K West	g	Wusik Station V3	Friendish Drums	004 Purth		Jungle Gem
006 Purity	By My Side	8	Purity	Luby For Gaia	005 Purity		Kicking Riding
007 WusikStation V3	BiLlo	ŝ	Purity	MC Basic	006 Purity		Rip Alley
008 Purity	Enter Water Man	6	Wusik Station V3	Flash Live	007 Purity		Super Step
009 WusikStation V3	Breakbeats 101	ñ	Purity	Machine Kit 1	008 Purity		Trendy RnB
010 Purity	Fly Me to the Mood	8	Wusik Station V3	Jonnie Kit	009 Purth		Ethno
011 WusikStation V3	Can - Can	ğ	Purity	Machine Kit 2	010 Purity		Drunk and Bass
012 Purity	In the And	8	Wusik Station V3	Kick Balls Kit	011 Purth		Count Start
013 WusikStation V3	Coffee Pot	8	Purity	Merc & Sola	012 Purity		Boost Trip
014 Purity	Life Goes Un	8	Wusik Station V3	King Kut	013 Purity		Urban Draft
015 WusikStation V3	Criminal Kit	8	Purity	Mine Filed	014 Purity		White
016 Purity	Mine Filed	8	Wusik Station V3	Light Paper	015 Purity		Rockeet
017 WusikStation V3	Customer	8	Purity	Musik	016 Purty	~	Melodic Steel
018 Purity	RiseFall	ĝ	Wusik Station V3	Luv Gets Ya	017 Purity		LandBelow
019 WusikStation V3	Damaja	ğ	Purity	Nitrogen	018 Purity		Love Punch
020 Purity	Rock Basic	8	Wusik Station V3	PSKI	019 Purity		20c Beat Box
021 WusikStation V3	DaveyD	ğ	Punty	VOA Veliever	020 Purity		Tribal Guns
022 Purity	Rock That Place				021 Purth		Taekwon V
023 WusikStation V3	Dirge Drums				022 Purity		Jive Time
024 Purity	Split Dreams in G	ş	nums / 03-Percussi	ons	023 Purth		HyperThreading 2
025 WusikStation V3	HopHooray	ĝ	his trament	Preset Name	024 Purity		Hydro
026 Purity	Street King Basic	8	PlugSound Free	Tribal Zone Light	025 Purity		Medium Rare Steal
027 WusikStation V3	Ice Cream	8	Punty	Percussion Kit	026 Purity		Sticks
028 Purity	Street King Drive	8	Wusik Station V3	D4Perc	027 Purth		MadMarch
029 WusikStation V3	JB for pres	8	Purity	Kicks	028 Purity		Peanut Game
030 Purity	Street King Lo-Fi	ğ	Wusik Station V3	India Perc	029 Purity		Outback
031 WusikStation V3	Jungledelic	8	Purity	Cymbals	030 Purity		OX Gas
		8	Wusik Station V3	Kora Reef	031 Purity		Microdive
10-Drums / 02-Electric I	nums	8	Purity	Snares			
Nov Instrument	Preset Name	8	Wusik Station V3	India Percussion			
000 PlugSoundFree	Nine09 menu	8	Punty	GM Steel Drum			
001 Purity	Bounce Front	83	Punty	GM Tinkle Bell			
002 WusikStation V3	B-E-A-T BOX	58	Wusik Station V3	Perca Pad			
004 MANAGE HILLS VID	Die to Uay	58	Purty Purty	GM Agogo			
004 VYUSIKSIRUU VO	Desilbaux	ŝ	WUSIK SKRUUT VO	aviswanya avis			

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		58	4 DhisSound Free	Next currept	58	DiveScend Even	Law per pup
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11-B ank / 02-B ank B		5	2 WUSIKSTATION V3	Knodes BS	8	WUSKSTRION VS	
NDv Instrument	Preset Name	8	3 Purity	Club 70	80	Purity	Vintage Bass
000 Purity	Tea Bee Step	8	4 Purity	Pheelectronics	88	WusikStation V3	Flute India
001 WusikStation V3	H Voice Set 2 Mod	8	5 WusikStation V3	RS0 Totem Melt TC	8	Lallapeliooza	A-38
002 Lallapaliooza	Welcome	g	6 PlugSound Free	AC Bass Vibra	8	Motion 2.8	swept aside
003 WusikStation V3	Drum 01 Set 4 Mod	8	7 Motion 2.8	Deep Nebula	8	WusikStation V3	Claps Dup 1
004 PlugSound Free	A Spanish Guitar	g	8 WusikStation V3	Rally Arp 4	8	Punity	Do Not Ask
005 WusikStation V3	Simpler Pad Slow	a	9 Purity	Darkystal	8	WusikStation VS	Drum 04 Set 4 Mod
006 Mr Tramp	Mr Tramp	8	0 Purity	Noise Kick	8	PlugSound Free	Bass Syrth 02
007 Purity	Double Stepper	8	1 Purity	Like on the way	88	Lallapeliooza	A-06
008 PlugSound Free	Old Dirty Clav light	8	2 PlugSound Free	Fretless Pad	8	Spook Keys	Theremin Whistle
009 WusikStation V3	Random ARP Wiseq	8	3 Lallapallooza	A.34	58	WusikStation V3	Pseudo Epichord
010 Purity	IceOut Bass	8	4 WusikStation V3	Flute Basic 2	8	Punity	Tine Choir Ens
011 Motion 2.8	Traveler	8	5 PlugSound Free	Harmonica light	8	WusikStation V3	My Kazoo
012 WusikStation V3	Moog Prodigy Super Gate	8	6 WusikStation V3	Drum 03 Set 4 Mod	5	Punity	Vibe Stick 1 & 2
013 Purity	Harp & Stings	8	7 Purity	Krysalis	ģ	WusikStation V3	GM Peroussian
014 Purity	Furky Clavinet	8	8 Purity	VEP+SBell	102	Lallapeliooza	A-32
015 PlugSound Free	LP Twin	8	9 PlugSound Free	Time Superior	ģ	Punity	SuperPad
016 Spook Keys	Theremin	8	0 WusikStation V3	Stictwitz Lead 10	á	WusikStation V3	Wseq Homs in the sky
017 Lallapallooza	A-27	8	1 PlugSound Free	Music Box Light	5	Punity	Puri Bossa
018 Purity	Hip Bee	8	2 Purity	Choir Ensamble	8	WusikStation V3	P.AD Sea Harmory VK
019 WusikStation V3	Chor Wind Solo	8	3 WusikStation V3	Stictwitz Lead 01	107	Punity	Hyperthread
020 Lallapallooza	P-03	8	4 PlugSound Free	Sitar light	8	WusikStation V3	Retro Brass 1
021 PlugSound Free	Jazzy Drum Kit Light	8	5 Purity	Luxar	8	Punity	Moogy Woogy
022 Purity	Soft plucky Pad	8	6 WusikStation V3	Arco Celli	5	Punity	Detune 4+16
023 Purity	Temple Voices	8	7 PlugSound Free	Nine09 menu	111	WusikStation V3	Asongle3 SM
024 WusikStation V3	RadioHeadFunk 006	8	8 Purity	Oxygen Split	112	Punity	LP CHOIR
025 PlugSound Free	Tribel Zane light	8	9 Purity	English Hom	113	WusikStation V3	Custom Waves
026 WusikStation V3	Ambiert Guitar Amp	8	0 Purity	OrchBrass & Strings	114	Punity	Disco Age
027 Purity	Woodwind & Strings	8	1 WusikStation V3	Pulsating Sweep	115	WusikStation V3	Ancient Vaices
028 Purity	Sara Angel's Phone	8	2 WusikStation V3	SynthOrchestra	116	Lallapeliooza	A-42
029 WusikStation V3	GM P izz Basses	8	3 Purity	Dream EP Pad	117	Purity	Mellowarp
030 Lallapaliooza	A-02	8	4 Purity	PraSing Flute	1 1	WusikStation VS	Methyl Mist
031 PlugSound Free	Viny Rhodes	8	5 Purity	Mystic Journey	119	Purity	MellowEP
032 Motion 2.8	Once through the gate	8	6 WusikStation V3	STR Nice in Space	5	WusikStation V3	Synth Strings 1
033 Purity	Erotic Creeper	8	7 XXX	Jernee in Space	121	Punity	Revolution
034 WusikStation V3	Rythm Pad 1	8	8 Purity	Dist Lead Sus	8	WusikStation V3	Bell Tower at Dawn
035 Purity	Cathedral	8	9 WusikStation V3	TEX Sea ARP	8	Punity	GM SFX Kit
036 PlugSound Free	Aroo Strings	8	0 Purity	String Ensamble	12	Purity	Grassy
037 Lallapaliooza	P-36	8	d Purity	OrchestraBrass	8	WusikStation VS	Drum Machine 08
038 WusikStation V3	Cheap Beats	8	2 PlugSound Free	Soft Piano Pad light	8	Punity	Rhythm Pad
039 PlugSound Free	Island Piano	8	3 Purity	Bass Lead Split	127	Punity	Microdive
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LX Ve	rsion Only		ğ	Sylerith 1	DR Side Kick	ö	at Sylenth1	LD Gemini
			ŝ	Sylerith 1		5	8 sylenth1	LU Heads up Detroit
07-Syn	nth / 05-Enhanced	Analog Synth (LX Only)	ġ	Sylenth 1	DR SynTom	ö	56 Sylenth1	LD Hollow/Tube
Nor A	Instrument	Preset Name	ğ	Sylenth 1	DR Woodblock	ö	87 Sylenth1	LD HydroSphere
000	Sylenth 1	ARP 303 Drive	ş	Sylenth 1	GAT Double HP	ö	88 Sylenth1	LD InUrFace
8	Sylenth 1	ARP 303 Pulse	ğ	Sylenth 1	GAT Future is now	ö	38 Sylenth1	LD Lost
803	Sylenth 1	ARP 303 Saw	ğ	Sylenth 1	GAT G-String	ö	90 Sylenth1	LD Magneto
8	Sylenth 1	ARP Add Overflow	g	Sylenth 1	GAT Hades	õ	91 Sylenth1	LD Marmalade
804	Sylenth 1	ARP Avesom-O	ğ	Sylenth 1	GAT Hoverade	ö	32 Sylenth1	LD Mega Lead
800	Sylenth 1	ARP ChordPad	ğ	Sylenth 1	GAT Namun	ö	38 Sylenth1	LD Moog Rez
88	Sylenth 1	ARP ClassicVA	8	Sylenth 1	GAT PWM Chorus	ö	st Sylenth1	LD Norefjell
200	Sylenth 1	ARP Doves	8	Sylerith 1	GAT Subconscious	ö	36 Sylenth1	LD Orange X
8	Sylenth 1	ARP Gitano	8	Sylenth 1	GAT Trancentral	ö	36 Sylenth1	LD Panama
8	Sylenth 1	ARP Goblin	8	Sylenth 1	HOV Analog Hover	ö	37 Sylenth1	LD PMVV SID
90	Sylenth 1	ARP Man Machine	8	Sylenth 1	HO V Dominator	õ	36 Sylenth1	LD Robotized
94	Sylenth 1	ARP MuttiSaw	ğ	Sylenth 1	HOV Nightm are	õ	38 Sylenth1	LD Saw Major
012 5	Sylenth 1	ARP Neuron	8	Sylenth 1	HO V Royale	-	00 Sylenth1	LD Screamer
013 5	Sylenth 1	ARP New Order	8	Sylenth 1	HOV Straight	7	01 Sylenth1	LD Stomp Device
014 5	Sylenth 1	ARP Oakish	8	Sylenth 1	KEY BigSynth	7	22 Sylenth1	LD TechWize
950	Sylenth 1	ARP Psycho Bass	ğ	I Sylenth 1	KEY Chicago	-	08 Sylenth1	LD TeleSynth
016 0	Sylenth 1	ARP Punchy	8	Sylenth 1	KEY Crystal Bells	=	04 Sylenth1	LD Trendhopper
017 S	Sylenth 1	ARP RubberDucky	8	Sylerith 1	KEY Fith House	7	05 Sylenth1	LD Yell
018 5	Sylenth 1	ARP TranceMania	8	Sylenth 1	KEY House Chord	-	06 Sylenth1	ORG Another DrawBar
019 5	Sylenth 1	ARP Twisted Mind	8	Sylenth 1	KEY MortalCoil	7	07 Sylenth1	PD ChillPad
020	Sylenth 1	ARP UniMinor	8	Sylenth 1	KEY Onyx	-	08 Sylenth1	PD DeepPhase
021 S	Sylenth 1	BS Big Bass	8	Sylenth 1	KEY Orchestra Hit	7	08 Sylenth1	PD MoanCloud
82	Sylenth 1	BS Classic PWM	8	Sylenth 1	KEY Pantute	-	10 Sylenth1	PD Morphing Pad
023	Sylenth 1	BS Fifth Saw	8	Sylenth 1	KEY Pizzicato	÷	11 Sylenth1	PD ResoBell Pad
024 5	Sylenth 1	BS FreeBass	ĕ	Sylenth 1	KEY Pluckobar	÷	12 Sylenth1	PD SandHose
025 5	Sylenth 1	BS Italo	ğ	I Sylenth 1	KEY Rhowdz	÷	13 Sylenth1	PD SoftString
028	Sylenth 1	BS LMBass	6	Sylerith 1	KEY SkyDrops	÷	14 Sylenth1	PD Spocky Pad
027 5	Sylenth 1	BS Moog Bass	6	Sylenth 1	LD Ampere	-	15 Sylenth1	PD SunRise
88	Sylenth 1	BS Oldskool Acid	6	Sylenth 1	LD Bandisto	-	16 Sylenth1	PD Taj Mahal
83	Sylenth 1	BS PhaseBass	ë	Sylenth 1	LD Big Fifth	-	17 Sylenth1	SEQ HypnoFrog
8	Sylenth 1	BS Point Bass	6	Sylenth 1	LD Cameron	-	18 Sylenth1	SEQ Majon/Valk
8	Sylenth 1	BS Reso Bass	6	Sylenth 1	LD Cello	÷	19 Sylenth1	SEQ Something Analog
832	Sylenth 1	BS SquareRoot	5	Sylenth 1	LD Cosmic	-	20 Sylenth1	SFX Dungeon
833	Sylenth 1	BS TranceBass	6	Sylerith 1	LD DanceLead	-	21 Sylenth1	SFX Eerie Mist
834 5	Sylenth 1	BS TranceDriver	ĕ	Sylenth 1	LD Deck16	-	22 Sylenth1	SFX It's Broken
88	Sylenth 1	BS Unison Bass	ő	Sylenth 1	LD Decoy	-	23 Sylenth1	SFX Positron
88	Sylenth 1	BS WetSub	8	Sylenth 1	LD Discopolis	-	24 Sylenth1	SFX Predator
837 8	Sylenth 1	DR Kick Basic	8	Sylenth 1	LD Dist Guitar Lead	-	25 Sylenth1	SFX RagMachine
88	Sylenth 1	DR Noizekick	8	Sylenth 1	LD Exceeder	-	26 Sylenth1	SFX UFO
880	Sylenth 1	DR Shaker	ë	Sylenth 1	LD Follow	-	27 Sylenth1	SFX Whoosh

LX Ve	sion Only		g i	Sylenth 1	KEY BrightPluck	0	84 Sylenth1	LD SynFlute
			£.	Sylenth 1	KEY Carllon	5	80 Sylenth1	LU lera/vave
11-Bail	hk / 04-Bank C	(Enhanced Analog Synth)	g	Sylenth 1	KEY Ethereal	0	86 Sylenth1	LD Tower of Babel
Nor A	nstrument	Preset Name	¥	Sylenth 1	KEY Glocken	0	87 Sylenth1	LD Transmute
000 S	lylenth 1	303 Doubled	율	Sylenth 1	KEY HankyTonk	õ	88 Sylenth1	LD Trump
<u>8</u>	sylenth 1	303 Pulse	욠	Sylenth 1	KEYIcide	0	88 Sylenth1	LD UniSawLead
80 S	sylenth 1	303 Saw	8	Sylenth 1	KEY Noiseophone	õ	90 Sylenth1	LD WardsBack
88	sylenth 1	303 SawDrive	8	Sylenth 1	KE Y Plingel	0	91 Sylenth1	LD Weep
004 S	sylenth 1	303 SawFat	ŝ	Sylenth 1	KEY Pluckobar	0	92 Sylenth1	LD White Rabbit
005 S	sylenth 1	BS AcBass	g	Sylenth 1	KE Y Pulsar	õ	93 Sylenth1	LD WindLead
800 S	sylenth 1	BS Barbed Wire	8	Sylenth 1	KEY ResoPluck	õ	of Sylenth1	LD Wong
2007 S	ylenth 1	BS Big Bass	8	Sylenth 1	KEY SelfOsc	õ	96 Sylenth1	LD Xongman
88	sylenth 1	BS Boogie Bass	8	Sylenth 1	KEY TranceFlute	õ	96 Sylenth1	ORG DrawBar Organ
500	ylenth 1	BS Deep Sub	8	Sylenth 1	LD Chiptune1	ő	97 Sylenth1	ORG Space Organ
010 S	Sylenth 1	BS Electric Bass	8	Sylenth 1	LD Chiptune2	õ	98 Sylenth1	PD AravPad
011 S	sylenth 1	BS Fatso	8	Sylenth 1	LD Digitaria	0	98 Sylenth1	PD Astronomico Pad
012 S	sylenth 1	BS Fith Saw	8	Sylenth 1	LD Dist Pluck	~	00 Sylenth1	PD Bass String
013 S	sylenth 1	BS Filt Bass	8	Sylenth 1	LD Don't see the point	-	01 Sylenth1	PD HallString
014 S	Sylenth 1	BS Fitthy Sub	ğ	Sylenth 1	LD Double HP Lead	-	02 Sylenth1	PD Lost Memories
015 5	ylenth 1	BS Funkorama	8	I Sylenth 1	LD DreamTrump	~	03 Sylenth1	PD MessedUp
016 S	ylenth 1	BS Line Bass	8	I Sylenth 1	LD Duck Lead	-	04 Sylenth1	PD Neptunus
017 S	sylenth 1	BS Moog Bass	8	Sylenth 1	LD Fat Bitch	-	05 Sylenth1	PD NoisePad
018 S	ylenth 1	BS Point Bass	8	Sylenth 1	LD Filter Drive	-	06 Sylenth1	PD Silver Strings
019 S	sylenth 1	BS Reso Bass	8	Sylenth 1	LD Formartic	-	07 Sylenth1	PD SlowString
020 S	sylenth 1	BS Road Bass	8	Sylenth 1	LD Gremlin	-	08 Sylenth1	PD Voyager
021 S	Sylenth 1	BS Slapper	8	Sylenth 1	LD Hollow Phase	~	09 Sylenth1	SEQ Afrodiseq
022 S	sylenth 1	BS SweepBass	8	Sylenth 1	LD LostBand	-	10 Sylenth1	SEQ Evolver
823 S	lylenth 1	BS Tough Bass	8	Sylenth 1	LD Loud Speaker	-	11 Sylenth1	SEQ FitterScape
024 S	sylenth 1	BS Wet Bass	ğ	Sylenth 1	LD Metal Dist	-	12 Sylenth1	SEQ Gater
025 S	sylenth 1	DR Clep	8	Sylenth 1	LD ModRage	-	13 Sylenth1	SEQ Rolling Bass
026 S	Sylenth 1	DR Closed Hithat	26	Sylenth 1	LD OBServ	-	14 Sylenth1	SEQ Sunday Night
027 S	Sylenth 1	DR Dist Kick	6	Sylenth 1	LD PhaseFeed	~	15 Sylenth1	SFX ComingDown
028 S	sylenth 1	DR Hihat	6	Sylenth 1	LD Plork	-	16 Sylenth1	SFX Drops of Electricity
82 S	ylenth 1	DR Kick Basic	6	Sylenth 1	LD PowerChord	-	17 Sylenth1	SFX Faulty
8000	sylenth 1	DR Noise Clap	67	Sylenth 1	LD Pulse Screamer	-	18 Sylenth1	SFX Filtron
8 S	sylenth 1	DR Snare	50	Sylenth 1	LD PWM Pulse	-	19 Sylenth1	SFX Helicopter
032 S	sylenth 1	DR Tech Kick	920	Sylenth 1	LD Ramz	-	20 Sylenth1	SFX Mainframe
033 S	sylenth 1	DR Woodblock	220	Sylenth 1	LD Reso Lead	-	21 Sylenth1	SFX Modulator
034 S	sylenth 1	HOV Analog Hover	820	Sylenth 1	LD Reso Ring	-	22 Sylenth1	SFX Parasite
035 S	sylenth 1	HOV Dark Era	56	Sylenth 1	LD RobotHey	-	23 Sylenth1	SFX Rmight
88 S	sylenth 1	HOV DirtyHover	8	Sylenth 1	LD Spherical	-	24 Sylenth1	SFX Space Station 7
037 S	sylenth 1	HOV Hardlead	8	Sylenth 1	LD Squared	-	25 Sylenth1	SFX Techniko
88	sylenth 1	KEY Arp Attack	8	Sylenth 1	LD Super Saw	-	26 Sylenth1	What?
88 S	sylenth 1	KEY Arpist	ő	Sylenth 1	LD SuperPulse	-	27 Sylenth1	SFX Whom hole
		N.					8	

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LX Vers	on Only		8	Sylenth 1	DR Kettle	8	ίΩ at 1	Aenth 1	LD Sample the Voice
			E	Sylenth 1	DR Light Snare	8	ίΩ Ω	Aenth 1	LD Sicko
11-Bank	/ 05-Bank D	(Enhanced Analog Synth)	g	Sylenth 1	DR Monsterkick	8	κ) α	Aenth 1	LD SID Wave
NDV Ins	trument	Preset Name	g	Sylenth 1	DR Tazer	8	ŝ	Aenth 1	LD SlowMy LFO
000 Syl	enth 1	ARP - O - Ben	8	Sylenth 1	DR TrashKick	8	ŝ	Aenth 1	LD SubOddessy
DOM Syl	enth 1	ARP Airbow	8	Sylenth 1	GAT Shuffle Along	8	ທີ ອ	Aenth 1	LD SuperRez
002 Syl	enth 1	ARP Bernuda	8	Sylenth 1	GAT Thirkpad	8	ŝ	Aenth 1	LD Synthrock
003 Syl	enth 1	ARP Chordomatic	8	Sylenth 1	HOV Fat Wah	8	λ N	Aenth 1	LD The Triffids Are Back
004 Syl	enth 1	ARP Clean Slate	88	Sylenth 1	HOV FilterHover	8	ŝ	Aenth 1	LD Trance Gamma
005 Syl	enth 1	ARP Cyborg	8	Sylenth 1	HOVRaveOn	8	ŝ	Aenth 1	LD VirPulse
006 Syl	enth 1	ARP Distant	8	Sylenth 1	HOV Scream Hover	8	ίΩ A	Aenth 1	LD VirSaw
007 Syl	enth 1	ARP Fith Prophet	8	Sylenth 1	KEY Bellisimo	8	ŝ	Aenth 1	LD Vitamine
008 Syl	enth 1	ARP Flying Saucer	8	Sylenth 1	KEY Harpsyphase	8	s 9	Aenth 1	LD WildThing
16S 600	enth 1	ARP FM Seq	8	Sylenth 1	KEY LightRay	8	S A	Aenth 1	ORG Big Organ
010 Syl	enth 1	ARP Fresh 303	8	Sylenth 1	KEY Love is Oxygen	8	б Я	Aenth 1	ORG The Organist is Here
011 Syl	enth 1	ARP Gravity	88	Sylenth 1	KEY Old Hoover	8	ŝ	Aenth 1	PD Back Me Up
012 Syl	enth 1	ARP I'm in the MODE	88	Sylenth 1	KEY Pulsating E choes	10	ŝ	Aenth 1	PD DirtyHands
013 Syl	enth 1	ARP Interplanetary	8	Sylenth 1	KEY Steele Synth	10	ŝ	Aenth 1	PD HitMySweeper
014 Syl	enth 1	ARP Keep in Time	ŝ	Sylenth 1	KEY StoneValley	10	ŝ	Aenth 1	PD Let My Octave Go
015 Syl	enth 1	ARP MajorMelody	8	Sylenth 1	KEY That Old Electric	5	ŝ	Aenth 1	PD Movements
016 Syl	enth 1	ARP Pimp My Ride	8	Sylenth 1	KEY The Source	5	S A	Aenth 1	PD Offbeat LFO Pad
017 Syl	enth 1	ARP PWWBass	8	Sylenth 1	KEY Touch Me	10	ŝ	Aenth 1	PD Prognosis
018 Syl	enth 1	ARP RainDrop	8	Sylenth 1	KEY Whinly RoadPad	10	ŝ 9	Aenth 1	PD Rhythmic Pad
019 Syl	enth 1	ARP Rise Again	8	Sylenth 1	KEYWoop	10	V S	Aenth 1	PD SampleHold
020 Syl	enth 1	ARP Serenity	8	Sylenth 1	LD 5th of Theremin	10	ŝ	Aenth 1	PD Slightly Unstable
021 Syl	enth 1	ARP Spectrum Z	88	Sylenth 1	LD AlienLead	10	S B	Aenth 1	PD Swirties
022 Syl	enth 1	ARP Stylin	8	Sylenth 1	LD AnalogLead	7	ŝ	Aenth 1	PD Swirling Gate
023 Syl	enth 1	ARP SubPeak Arp	8	Sylenth 1	LD Boymowy	5	4 S	Aenth 1	PD ThinString
024 Syl	enth 1	ARP Take Fith	8	Sylenth 1	LD BrokenCircuit	1	2 S)	Aenth 1	SEQ ApDown
025 Syl	enth 1	ARP TranceEpic	8	Sylenth 1	LD Can't Get Enough	1	3 S	Aenth 1	SEQ Arpish
026 Syl	enth 1	ARP Waiting For Night	6	Sylenth 1	LD ChineseRock	1	4 S)	Aenth 1	SEQ The Alternator
027 Syl	enth 1	ARP WireBass	5	Sylenth 1	LD CrushOnYou	11	s S	Aenth 1	SEQ Wrecked
028 Syl	enth 1	BS Aggressor	22	Sylenth 1	LD Double HP	7	e S	Aenth 1	SFX DesertWind
029 Syl	enth 1	BS DriveBass	5	Sylenth 1	LD Greasy		ŝ	Aenth 1	SFX Industrial Rumble
030 Syl	enth 1	BS HeavyBass	074	Sylenth 1	LD Highlander		ŝ	Aenth 1	SFX Kernel Paric
031 Syl	enth 1	BS HeavyMoogBass	075	Sylenth 1	LD LaurentGamier	-	б б	Aenth 1	SFX RedStar
032 Syl	enth 1	BS KnarzBass	920	Sylenth 1	LD Leadthe Way	12	ŝ	Aenth 1	SFX RobotBirds
033 Syl	enth 1	BS Night Vision	220	Sylenth 1	LD Lethal Industry	12	ŝ	Aenth 1	SFX Sever
034 Syl	enth 1	BS Phastralix	078	Sylenth 1	LD LostInEternity	12	S)	Aenth 1	SFX Ticker
035 Syl	enth 1	BS Restless	620	Sylenth 1	LD Not So Skinny	_			
036 Syl	enth 1	BS SavBass	8	Sylenth 1	LD OldSynth	_			
037 Syl	enth 1	BS StrikeFighter	8	Sylenth 1	LD Quack	_			
038 Syl	enth 1	BS TranceRoller	8	Sylenth 1	LD Rythmic-Wheels	_			
168 Syl	enth 1	DR Crushkick	8	Sylenth 1	LD Rollback	_			
			ł			ŀ			
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ž	ation only		38	U Sylentin 1		ğğ	Sylentin 1	Run Gloer	
44 0.0	all AE Park E	(Entranced Augles Contt)	58	O Sulanth 1	D AD Vintego Chines	58	Sylcium -		
1	fued an under	Decot Name	5 à	Syland 1		58	Sylenth 1	Shefter Core Shefter/Ore0	
8	Svlenth 1	BASS Arbm's Base	8	4 SMenth 1	PLLICK Das Boot	88	Sylenth 1	Stab Core	
§	Sylenth 1	BASS Bid Gameboi	ġ	5 Sylenth 1	PLUCK Grasshopper	8	Sylenth 1	Step Charges	
002	Sylenth 1	BASS Creamy	§	5 Sylenth 1	PLUCK Hale Bopp	g	Sylenth1	supperdesuperzaag	
8	Sylenth 1	BASS Deep Base	8	7 Sylenth 1	PLUCK Metalic	8	Sylenth 1	supperdesuperzaag arp	
60	Sylenth 1	BASS Electro	Ë	8 Sylerith 1	PLUCK Rain Drops	280	Sylenth1	Uplifting Seeker	
8	Sylenth 1	BASS Filteroid	ğ	B Sylenth 1	PLUCK Take Me Away	g	Sylenth 1	velse steb	
8	Sylenth 1	BASS Golf Balls	8	0 Sylenth 1	PLUCK Trancey Pluck	ğ	Sylenth 1	Vocal Trip	
200	Sylenth 1	BASS HP Roller Bass	8	I Sylenth 1	PLUCK Vandit				
8	Sylenth 1	BASS Pitch Bass	8	2 Sylenth 1	SEQ Bass Roller				
8	Sylenth 1	BASS Square Punch	8	3 Sylenth 1	SEQ Coke Acid				
8	Sylenth 1	BASS We will Survive	8	4 Sylenth 1	SEQ Communist Regime				
6	Sylenth 1	FX 70's Moivescore	8	5 Sylenth 1	SEQ Goa Insekt King				
012	Sylenth 1	FX Down Fall	8	8 Sylenth 1	SEQ Infekted				
013	Sylenth 1	FX Energise	8	7 Sylerith 1	SEQ Lulleby				
94	Sylenth 1	FX Mean Fall	8	8 Sylenth 1	SEQ Outbackish				
935	Sylenth 1	FX Old VINM	8	B Sylerith 1	SEQ SawSequencer				
016	Sylenth 1	FX R2D2 On Coffee	8	0 Sylenth 1	SEQ SID Theme				
017	Sylenth 1	FX Rise Up	8	I Sylenth 1	SEQ SID Theme 2				
38	Sylenth 1	FX Sine Fall	8	2 Sylerith 1	SEQ The Warp Brothers				
019	Sylenth 1	FX Sylenth 1 Does FM	8	3 Sylenth 1	Adam szabo				
020	Sylenth 1	FX Whitenoise Downlift	8	4 Sylenth 1	2 note dash				
021	Sylenth 1	FX Whitenoise Uplifter	8	5 Sylenth 1	Computer Extraction				
8	Sylenth 1	FX Webb	8	5 Sylerith 1	Computer Extraction 2				
83	Sylenth 1	LEAD Dire Straights	8	7 Sylerith 1	Darkcore Mod Saw				
024	Sylenth 1	LEAD Galaxee	8	8 Sylenth 1	Domination				
025	Sylenth 1	LEAD Guitar of Hell	8	B Sylenth 1	Exitement on 3 notes				
026	Sylenth 1	LEAD Hello Virus	5	0 Sylenth 1	Filter This Fucker				
027	Sylenth 1	LEAD JP8K	6	I Sylenth 1	Flat Works				
88	Sylenth 1	LEAD Mystery Land	6	2 Sylenth 1	gekke anp				
83	Sylenth 1	LEAD Symbiosis	6	3 Sylenth 1	gekke bassline arp				
8	Sylenth 1	LEAD Syndsh	6	4 Sylenth 1	gekke bassline drone arp				
8	Sylenth 1	LEAD TrackinTreasure5	8	5 Sylenth 1	Hit em rawand low				
832	Sylenth 1	LEAD Triumph Keys	8	S Sylenth 1	Into HandCore				
88	Sylenth 1	P.AD Devotion	6	7 Sylerith 1	Into HandCore 2				
034	Sylenth 1	P.AD Fountain	6	8 Sylenth 1	Jaa hey!				
8	Sylenth 1	PAD Hold Me Down	6	B Sylenth 1	Jaa hey! 2				
88	Sylenth 1	P.AD Horror Show	8	0 Sylenth 1	Nintekno bass				
037	Sylenth 1	P.AD Into The Night	8	I Sylenth 1	OverMod				
8	Sylenth 1	P.AD Phaser Pad	8	2 Sylenth 1	paddestoel				
88	Sylenth 1	P.AD ShowPad	8	3 Sylenth 1	Reso Rocks				
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Appendix D – Pro Audio Basics

The following glossary will help you to understand some of the more common terms found in the digital audio workstation world. Also, be sure to check out some of the following online resources:

- Open Labs User Forums http://forum.openlabs.com
- Modern Recording Techniques http://www.modrec.com
- Wikipedia http://en.wikipedia.org/wiki/Professional_audio
- Wikiaudio http://www.wikiaudio.org
- Audio Engineering Society http://www.aes.org
- Recording.org http://recording.org/index.php

Open Labs Pro Audio Primer

ASIO

(Audio Stream Input/Output), developed by Steinberg, is a cross-platform, multichannel audio transfer protocol that is being adopted by many of the manufacturers of audio/MIDI sequencing applications. It allows software to have access to the multichannel capabilities of a wide range of powerful sound cards. ASIO expands on the basic capabilities of a standard computer sound card, most of which can only provide stereo (two-channel) audio input and output. The ASIO specification defines the interface that manufacturers of professional audio sound cards must use to create an ASIO driver for their hardware. This driver allows the host audio/MIDI application to "see" all of the inputs and outputs available on the sound card. The user can then assign these I/O ports as needed for recording or playback when using an ASIOcompatible software program. This allows the users to record more tracks simultaneously than the previous limitation of two channels imposed by a standard sound card.

ATTACK

The initial transient or first part of the envelope of a signal. The beginning of a note. Also, see *Release*.

AUDIO

Of, pertaining to, or employed in the transmission, reception, or reproduction of sound.

AUDIO EFFECT

A special type of plugin that accepts an audio stream and produces a new audio stream. Examples include compressors, distortion and reverb.

AUDIO EFFECT CHAIN

A collection of plugins that start with an audio input, then goes through a chain of optional audio effects before going out to an audio bus.

BALANCED LINE

A cable having two conductors and a ground connection and often surrounded by a shield. These lines are often used in professional settings to reduce or eliminate induced noise and interference from external electromagnetic sources.

BANK

A collection of Presets that are loaded into memory for easy access and low load time.

BITRATE

In digital multimedia, bitrate represents the amount of information, or detail, that is stored per unit of time of a recording. The bitrate depends on several factors:

- 1. The samples may use different numbers of bits.
- 2. The original material may be sampled at different frequencies.
- 3. The data may be encoded by different schemes.
- 4. The information may be digitally compressed by different algorithms or to different degrees.

Generally, choices are made about the above factors in order to achieve the desired trade-off between minimizing the bitrate and maximizing the quality of the material when it is played.

If lossy data compression is used on audio or visual data, differences from the original signal will be introduced; if the compression is substantial, or lossy data is decompressed and recompressed, this may become noticeable in the form of compression artifacts. Whether these affect the perceived quality, and if so how much, depends on the compression scheme, encoder power, the characteristics of the input data, the listener's perceptions, the listener's familiarity with artifacts, and the listening or viewing environment.

Experts and audiophiles may detect artifacts in many cases in which the average listener would not. Some musicians enjoy the distinct artifacts of low bitrate (sub-FM quality) encoding and there is a growing scene of net labels distributing stylized low bit music.

The bitrates in this section are approximately the minimum that the average listener in a typical listening or viewing environment, when using the best available compression, would perceive as not significantly worse than the reference standard:

- Audio (MP3)
 - 4 kbit/s minimum necessary for recognizable speech (using special-purpose speech codecs)
 - 8 kbit/s telephone quality
 - 32 kbit/s MW (AM) quality
 - 96 kbit/s FM quality

- 128 kbit/s Typical "acceptable" music quality
- 256 320 kbit/s Near audio CD quality
- Video (MPEG2)
 - 16 kbit/s videophone quality (minimum necessary for a consumer-acceptable "talking head" picture)
 - 128 384 kbit/s business-oriented videoconferencing system quality
 - 1 Mbit/s VHS quality
 - 5 Mbit/s DVD quality
 - 15 Mbit/s HDTV quality

CARDIOID MICROPHONE

A common mic pickup pattern designed to attenuate signals arriving 180 degrees offaxis, while fully picking up those sounds that arrive at the front (on-axis).

COMPONENT

A collection of windows controls. An easy way to group controls that work together to provide service to the user.

CONDENSOR MICROPHONE

A microphone that operates on an electrostatic principle rather than on the electromagnetic principle used in dynamic and ribbon mics. These microphones require phantom power, or a +48 volt charge.

CONTROL

A single GUI item that performs a task. Examples include list boxes, right-click menus and "OK" buttons.

DC OFFSET

A DC Offset is an offset in the baseline, or zero mark of the waveform. A sample wave not centered on the zero baseline in the Waveform Display is said to have a DC Offset. This is usually caused by a calibration problem in the audio hardware. It is desirable to remove this offset after recording because undesirable pops can occur when editing a file with a large DC offset. To remove DC offset, a number of options are available ranging from applying a Low-Pass Filter to the waveform to using correction features built into most Audio Editors such as Wavelab or Audition. Dedicated DC Offset plugins in several formats such as VST and Direct X are also available.

DECIBEL (dB)

A unit of audio measurement of sound-pressure level (SPL), signal level, and changes or differences in signal level. The decibel is a logarithmic (log) mathematical function that reduces large numeric values into smaller, more manageable numbers. Decibel is calculated as being 10 times the log of the ratio of two powers and 20 times the log of the ratio of two voltages.

DESTRUCTIVE EDITING

When the audio data recorded on a hard disk is altered and rewritten to disk in such a way that it can't be recovered in its original form.

DIALOG

A window that is not full screen. In this host all Dialog boxes will be modal (meaning they will be the foremost window and nothing else can be done until they are closed).

DYNAMIC MICROPHONE

A microphone that operates by electromagnetic induction to generate an output signal. When an electrically conductive coil of wire or ribbon is made to cut across the flux lines of a magnetic field, a current of specific magnitude and direction is generated within that coil or ribbon.

EFFECTS SEND

An auxiliary send feeding an effects device.

EQUALIZER

A frequency-dependent amplifier that enables a recording or mix engineer to control the relative amplitude of various frequencies in the audible bandwidth. Put another way, the equalizer lets you exercise tonal control over the harmonic content or timbre of a recorded sound.

EXPANDER

A device that increases the dynamic range of a signal.

FADER

A linear attenuation device or linear volume control.

FILE TYPES

- **WAVE WAV (or WAVE)**, short for Waveform audio format, is a Microsoft and IBM audio file format standard for storing audio on PCs. It is a variant of the RIFF bit stream format method for storing data in "chunks", and thus also close to the IFF and the AIFF format used on Macintosh computers. Both WAVs and AIFFs are compatible with Windows and Macintosh operating systems. It takes into account some differences of the Intel CPU such as littleendian byte order. The RIFF format acts as a "wrapper" for various audio compression codecs. It is the main format used on Windows systems for raw audio.
- MIDI <u>Musical Instrument Digital Interface</u>, or <u>MIDI</u>, is an industry-standard electronic communications protocol that defines each musical note in an electronic musical instrument such as a synthesizer, precisely and concisely, allowing electronic musical instruments and computers to exchange data, or "talk", with each other. MIDI does not transmit audio it simply transmits digital information about a music performance.
- MP3 MPEG-1 Audio Layer 3, more commonly referred to as MP3, is a popular digital audio encoding and lossy compression format, designed to greatly reduce the amount of data required to represent audio, yet still sound like a faithful reproduction of the original uncompressed audio to most listeners. It was invented by a team of European engineers who worked in the framework of the EUREKA 147 DAB digital radio research programme and finally standardized by ISO/IEC in 1991
- OGG Ogg is a patent-free, fully open multimedia bit stream container format designed for efficient streaming and file compression (storage). The name "Ogg" refers to the file format which includes a number of separate independent open source codecs for audio, video and text (e.g. subtitles). Files ending in the .ogg extension may be of any Ogg media file type, and because the format is free, Ogg's various codecs have been incorporated into a number of different free and commercial media players.

FREQUENCY

The rate at which an acoustic generator, electrical signal, or vibrating mass repeats a cycle of positive+ and negative- going amplitude. The number of cycles that occur over the period of one second is measured in hertz (Hz). Often, the perceived range of human hearing is from 20 Hz to 18,000 Hz.

GAIN

Amount of amplification in dB.

GROUND LOOP

The rate at which an acoustic generator, electrical signal, or vibrating mass repeats a cycle of positive+ and negative- going amplitude. The number of cycles that occurs over the period of one second is measured in hertz (Hz). Often, the perceived range of human hearing is from 20 Hz to 18,000 Hz.

GUI

A graphical user interface (or GUI, often pronounced "gooey") is a method of interacting with a computer through a metaphor of direct manipulation of graphical images and widgets in addition to text. GUIs display visual elements such as icons, windows and other gadgets.

The precursor to GUIs was invented by researchers at the Stanford Research Institute (led by Doug Engelbart) with the development and use of text-based hyperlinks manipulated with a mouse for the On-Line System. The concept of hyperlinks was further refined and extended to graphics by researchers at Xerox PARC, who went beyond text-based hyperlinks and used GUIs as the primary interface for the Xerox Alto computer. Most modern general-purpose GUIs are derived from this system.

For this reason some people call this class of interface a PARC User Interface (PUI) (note that PUI is also an acronym for perceptual user interface). The PUI consists of graphical widgets (often provided by widget toolkit libraries) such as windows, menus, radio buttons, checkboxes and icons, and employs a pointing device (such as a mouse, trackball or touchscreen) in addition to a keyboard. Those aspects of PUIs can be emphasized by using the alternative acronym WIMP, which stands for Windows, Icons, Menus and Pointing device.

The GUI familiar to most of us today is either the Windows or the Macintosh operating systems and their applications originated at the Xerox Palo Alto Research Laboratory in the late 1970s. Apple used it in their first Macintosh computers. Later, Microsoft built on many of Apple's ideas in their first version of the Windows operating system for IBM-compatible PCs.

HARD DISK RECORDER

A system that uses a computer hard disk to record, edit, and reproduce digital data.

INSTRUMENT

A collection of plugins that starts with a MIDI input, then goes through optional MIDI effects, into a soft synth, and then into optional audio effects before going out to an audio bus. An instrument is set up anytime a user wants to play a soft synth.

LATENCY

Latency is the amount of time an application allocates to prepare a buffer full of audio data for playback. Lower latency settings add processing time because of the need to refill the smaller data buffers more often. You may need to increase your applications latency under the following conditions:

- You use lots of real-time effects, and you hear dropouts. Check the CPU meter for high readings; try increasing the latency.
- Your sound card does not function well at lower latency. Some sound cards just do not function well at lower latency settings.
- Even if your application reports no problems, if you hear dropouts try increasing the mixing latency.

LIMITER

A device used to keep signal peaks from exceeding a certain level in order to prevent the clipping or distortion of amplifier signals, recorded signals on tape or disc, broadcast transmission signals, and so on.

LINE LEVEL

A signal level that is referenced to either 4 dBm (pro) or -10 dBV (semipro/consumer). Devices other than mics, speakers, and power-amplifier outputs operate at these levels.

MASTERING

The processing and transferring of a final, sequenced audio tape to a medium for duplication.

MFUSION

Open Labs mFusion software unifies multiple MIDI interfaces, MIDI keyboards, and MIDI controllers into a single MIDI control panel for assigning MIDI channels, providing keyboard splits, assigning MIDI controllers, and setting other parameters for incoming MIDI data. In mFusion this is all called mapping. Keyboards and other controls may be mapped from one type of MIDI data to another, or mapped to other functions such as keystroke shortcuts, application launching, or even changing the mapping of another MIDI controller. All of the MIDI data mapped by mFusion is unified into a "virtual" MIDI port so that any music application may receive data from all attached MIDI controllers through one single MIDI port. The individual MIDI ports from each device remain available, however, for maximum flexibility.

MIDI

Musical Instrument Digital Interface, or MIDI, is an industry-standard electronic communications protocol that defines each musical note in an electronic musical instrument such as a synthesizer, precisely and concisely, allowing electronic musical instruments and computers to exchange data, or "talk", with each other. MIDI does

not transmit audio - it simply transmits digital information about a music performance.

MIDI CC

Short for "MIDI Continuous Controller", a specific kind of MIDI message. The modulation wheel of your synth, for example, sends out "MIDI Continuous Controller 1", or CC#1. Likewise, Volume is CC#7, GLIDE - Portamento Time is CC#5.

MIDI CHANNEL

A discrete portion of the complete MIDI signal that can include as many as 16 channels. Each channel carries independent messages; individual instruments tune in to these, just as a television tunes in to one of many channels. Instruments that can respond to multiple channels at once are called MULTITIMBRAL.

MIDI EFFECT

A special type of plugin that accepts a MIDI stream and produces a new MIDI stream. Examples include arpeggiators, note repeat, chorders and MIDI echo.

MIDI HOST

A MIDI Host is an application that allows you to use virtual effects and instruments (plug-ins). They can be basic programs used to audition plug-in effects and instruments right up to a complex multitrack recording environment for audio and MIDI.

MIDI SEQUENCING

In the field of electronic music, a sequencer was originally any device that recorded and played back a sequence of control information for an electronic musical instrument. Nowadays, the term almost always refers to the feature of recording software which allows the user to record, play back and edit MIDI data. This is distinct from the software features which record audio data. Early analog music sequencers used control voltage/trigger interface, but were replaced by digital hardware- or software-based MIDI sequencers, which play back MIDI events and MIDI control information at a specified number of beats per minute.

MONOPHONIC

Of, or noting a system of, sound recording, reproduction, or musical instrument using only a single channel.

MULTITIMBRAL

The capability of an electronic musical instrument to respond to and output multiple voice patches at one time.

MULTITRACK RECORDING

Multitrack recording ('multitracking' or just 'tracking' for short) is a method of sound recording that allows for the separate recording of multiple sound sources to create a cohesive whole. This is the most common method of recording popular music. Multitracking can be achieved with hard disk based systems like an Open Labs production station, often employing a computer and multitrack audio recording software.

Multitrack recording devices vary in their specifications, such as the number of simultaneous tracks available for recording at any one time; in the case of tape based systems this is limited by, among other factors, the physical size of the tape employed. For computer based systems the trend is towards unlimited numbers of record/playback tracks, although issues such as memory and CPU available will in fact limit this from machine to machine. It has to be noted that on computer based systems, the number of simultaneously available recording tracks is limited by the sound card discrete analogue or digital inputs.

When recording, audio engineers can select which track (or tracks) on the device will be used for each instrument.

At any given point on the tape, any of the tracks on the recording device can be record or playing back, so that an artist is able to record onto track 2 and, simultaneously, listen to track 1, allowing him to sing or to play an accompaniment to the performance already recorded on track 1. He might then record on track 3 while listening to track 2. All three performances can then be played back in perfect synchrony, as if they had originally been played and recorded together. This can be repeated until all of the available tracks have been used, or in fact, reused.

When recording is completed, the many tracks are "mixed down" through a mixing console to a two-track stereo recorder in a format which can then be duplicated and distributed. Most of the records, CDs and cassettes commercially available in a music store are recordings that were originally recorded on multiple tracks, and then mixed down to stereo. These stereo mixes can in turn be recorded onto two tracks of a four-track recorder, allowing additional sound to be layered on the remaining tracks.

NOISE GATE

A device that acts as an infinite expander, allowing a signal above the selected threshold to be passed through to the output at unity gain and without dynamic processing. When the input signal falls below this threshold level, the device effectively shuts down the signal by applying full attenuation to the output.

NON-DESTRUCTIVE EDITING

Editing a hard-disk sound file by moving pointers, without altering in any way the digital audio data originally recorded to disk.

NORMALIZING

A specialized gain-related process that makes the best use of a digital system's dynamic range by automatically determining the amount of gain required to increase the level of the highest amplitude signal to its full-scale amplitude value, and then increasing the level of the selected region or entire file by this gain ratio.

OCTAVE

The most basic musical interval, and the second harmonic of the natural scale, which represents a doubling of frequency.

The diatonic scales in the western harmonic system have 8 notes to the octave, hence the name. There are 12 semi-tones to an octave and in some middle-eastern scales,

24 quarter-tones.

OMNI-DIRECTIONAL MICROPHONE

A mic that outputs signals received from all incident angles at the same (or nearly equal) level.

OSCILLATOR

In modern musical terms, an oscillator is a component that originates a signal. The period of an oscillator is the time it takes to oscillate, or repeat. The period is also referred to as frequency or pitch. The classic analog synthesizers had regular periodic oscillator shapes such as Sine, Triangle, Pulse, Ramp, and Saw. They also sometimes had a special non-periodic oscillator called noise. Although not technically an oscillator because it does not repeat a pattern, the noise oscillator generates semi-random values within a certain frequency.

PHANTOM POWER

Power for a condenser mic that comes directly from the console through balanced mic cables by supplying a positive DC supply voltage of 48V (usually) to both conductors (pins 2 & 3) with respect to pin 1. This voltage is distributed through identical value resistors so that no differential exists between the two leads; therefore, the voltage is electrically invisible to the alternating audio signal. The DC circuit is completed by connecting the negative side of the supply to the cable's grounding shield.

PLUG-IN

Plug-ins are audio processing modules. They are usually of the VST or DX format. They are usually third party external DLLs that will usually take an input stream and produce output streams. In the case of music software this generally takes the form of an instrument, such as a synth or sampler, or an effect processor, such as a reverb or compressor.

POLAR PATTERN

A polar graph of the sensitivity of a microphone at all angles of sound incidence relative to the sensitivity on-axis.

POLYPHONIC

The capability of an electronic musical instrument to output multiple notes at one time.

PRESET

A collection of Instruments and/or Audio Effect chains with unique settings for each plugin in the preset.

PRESET GROUP

User defined group of Presets contained within a Bank.

PUNCH-IN PUNCH-OUT

The entering into and out of record mode on a track that contains existing program material for the purpose of correcting or erasing an unwanted segment.

QUANTIZATION

The amplitude component of the digital sampling process. In an A/D converter, the process of generating a binary number (made of 1s and Os) that represents the voltage of the analog waveform at the instant it is measured or sampled.

RELEASE

The final portion of a note's envelope, which falls from the sustain signal level to silence.

SAMPLE RATE

Level of accuracy with which audio data is stored. The higher the rate, better the sound quality but the more costly in computer time and memory. In digital audio, common sampling rates are:

- 8,000 Hz telephone, adequate for human speech
- 22,050 Hz radio
- 32,000 Hz miniDV digital video camcorder
- 44,100 Hz audio CD, also most commonly used with MPEG-1 audio (VCD, SVCD, MP3)
- 47,250 Hz world's first commercial PCM sound recorder by Nippon Columbia (Denon)
- 48,000 Hz digital sound used for digital TV, DVD, DAT, films and professional audio
- 50,000 Hz first commercial digital audio recorders from the late 70's from 3M and Soundstream
- 50,400 Hz sampling rate used by the Mitsubishi X-80 digital audio recorder
- 96,000 or 192,400 Hz DVD-Audio, some LPCM DVD tracks, BD-ROM (Blu-ray Disc) audio tracks, and HD-DVD (High-Definition DVD) audio tracks
- 2.8224 MHz SACD, 1-bit sigma-delta modulation process known as Direct Stream Digital, co-developed by Sony and Philips

SEQUENCING

MIDI Sequencer - In the field of electronic music, a sequencer was originally any device that recorded and played back a sequence of control information for an electronic musical instrument. Nowadays, the term almost always refers to the feature of recording software which allows the user to record, play back and edit MIDI data. This is distinct from the software features which record audio data. Early analog music sequencers used control voltage/trigger interface, but were replaced by digital hardware- or software-based MIDI sequencers, which play back MIDI events and MIDI control information at a specified number of beats per minute.

SMPTE TIME CODE/MTC MIDI TIME CODE

Time codes contains binary coded decimal hour:minute:second:frame identification and 32 bits for use by users. There are also drop-frame and color framing flags and three extra 'binary group flag' bits used for defining the use of the user bits. The formats of other forms SMPTE timecodes are derived from that of the longitudinal time code.

Time code can have any of a number of frame rates: common ones are:

- 24 frame/s (film)
- 25 frame/s (PAL color television)

- 29.97 (30/1.001) frame/s (NTSC color television)
- 30 frame/s (American black-and-white television) (almost obsolete)

In general, SMPTE timecode frame rate information is implicit, known from the rate of arrival of the timecode from the medium, or other metadata encoded in the medium. The interpretation of several bits, including the "color framing" and "drop frame" bits, depends on the underlying data rate. In particular, the drop frame bit is only valid for a nominal frame rate of 30 frame/s: see below for details. SMPTE/MTC is a position and timing reference that indicates the current location in the project and how quickly the project should be playing. Time code labels the position in a project in hours, minutes, seconds, and frames. The speed of playback is indicated by a frame rate.

Time code is recorded onto tape using a device called a time code generator. The process of recording a time code signal onto a track is called striping. Normally, the start of a tape stripe has a particular time, expressed in hours, minutes, seconds, and frames. For example, the tape stripe might start at 00:00:00:00, 01:00:00:00, or any other time. The material recorded on the tape usually starts anywhere from 10 seconds to several minutes after the start of the time code. Sometimes, the tape stripe starts at a time like 00:59:50:00, and the material starts 10 seconds later, at 01:00:00:00.

SOFT SYNTH

A soft synth, also known as a software synthesizer or virtual instrument, is a computer program for digital audio generation. Computer software which can create sounds or music can accomplish the same tasks as dedicated hardware. Soft synths can be cheaper and more portable than dedicated hardware, and easier to interface with other music software such as MIDI sequencers.

SOLO

A monitor function that lets the engineer hear a single instrument or group of instruments without affecting the studio's headphone monitor mix, recorded tracks, or mixdown signal.

STREAMING

A system for transmitting audio and/or data through a transmission media (such as the web) in real-time.

SUSTAIN

In a traditional envelope, the level at which an enveloped setting remains after the Attack and Decay stages until the key is released.

SYNC

The locking of relative transport or playback speeds of various devices to allow them to work together as a single, integrated system.

TRANSPOSE

To write or perform (a composition) in a key other than the original or given key.

UNBALANCED LINE

A cable having only one conductor plus a surrounding shield, in which the shield is at ground potential. The conductor and the shield carry the signal.

VST/VSTi (Virtual Studio Technology):

Refers to an interface standard for connecting audio synthesizer and effect plugins to audio editors and hard-disk recording systems. VST and similar technologies allow the replacement of traditional recording studio hardware with software counterparts. A VST instrument (or VSTi) is a type of VST plug-in that is generally used to synthesize sound or play-back sampled audio. Types of VST instruments include (among others) virtual synthesizer devices and sampler devices. VST instruments can be played in real-time when used with an appropriate software and hardware configuration.

VSTi LINK

The connection between a plugin parameter and a physical hardware MIDI control (or a virtual soft control). An example of a link would be when a user moves a hardware MIDI knob and the volume output of a soft synth changes.

WAVEFORM

Usually a graphic representation of the shape of a wave that indicates its characteristics (as frequency and amplitude). When talking about synthesizers, the term generally refers to the most common types of waveforms, such as the sine, triangle, sawtooth, and pulse waves. It can also refer to digital waveforms which are rendered from pre-recorded samples.

WORD CLOCK

A word clock is a device used to create a regular pulse used to synchronize other devices, such as digital audio tape machines and compact disc players, which interconnect via digital audio. S/PDIF, AES/EBU, ADAT and other formats use a word clock. A word clock neither produces nor uses timecode; it is used entirely to keep a perfectly-timed and constant bitrate to avoid data errors.

Appendix E – Making Adjustments

Calibrating the Touchscreen

There is a property in the "TouchKit" utility used to customize your touch screen to your on touch style, that property is called Calibration.

Start by pressing the Open Labs icon in the bottom left corner. Press "Util", then press the Touch Screen Icon to launch it's interface.



Press the "Cal 4 Point" button on the preferences page below.

	XTouchWare	
0		« »

Touch the blinking "X" symbol on the screen until it beeps or it stops blinking. There will be four "X's" to push.

Please touch the blinking symbol until beep or stop blinking
×

Adding a Second Display

All Open Labs production stations come standard with an external VGA monitor output. This is so you can run an additional display. For best results, use "extended desktop" mode. The following instructions will explain to you how to achieve this.

While your machine is powered down, connect the second display. When you boot the machine back up the second monitor probably will seem connected. However, once the system loads up, the second display will be blank. From here, the second display needs to be set to extended desktop.

- 1. Press the Open Labs icon in the lower left corner of the screen, press the UTIL button and select "Exit to Windows".
- 2. Right-click the desktop, and then click *Properties* on the shortcut menu.
- 3. In the Display Properties dialog box, on the Settings tab, click the blue rectangle with the number 2 (which represents the external monitor), and then select the Extend my Windows desktop onto this monitor checkbox.
- 4. Under Screen resolution, drag the slider to the right to change the screen resolution of Monitor 2 to 1024 by 768 pixels, and then click OK.

Display Properties						
Themes Desktop Screen Saver Appearance Settings						
Drag the monitor ic	ons to match the p	hysical arran	igement of	your monitors.		
	1	2				
Display: 1 Acer I CD Monitor AI 1721 on Intel(B) G35 Express Chipset Family						
Screen resolution	Screen resolution Less More 1024 by 768 pixels					
Image: Use this device as the primary monitor. Image: Extend my Windows desktop onto this monitor. Identify Troubleshoot Advanced OK Cancel						

5. When prompted, click Yes.

You can change the screen resolution in the Display Properties dialog box.

Note: If your desktop background does not appear on the external monitor, click No, and then repeat step 3 to decrease the screen resolution.

Adjust the position of the monitors

By default, Windows places the second screen to the right of the first (or primary) one. You can change the position of the monitors to reflect their physical position.

- 1. Right-click the desktop, and then click Properties on the shortcut menu.
- 2. In the Display Properties dialog box, on the Settings tab, drag the graphical representation of Monitor 2 (the blue box with the number 2 in it) to the left of Monitor 1, and then click OK.
- 3. When prompted, click Yes.

Adjust your screen settings

When you first enable Extended Desktop mode, your taskbar and any icons on your desktop appear on the Open Labs touch screen; desktop space without icons appears on the external monitor. You may find it easier to show the taskbar on the external monitor since it is usually the larger of the two screens.

- 1. On your touchscreen, right-click an empty area of the taskbar, and then click Lock the Taskbar.
- 2. Drag the taskbar to the external desktop and drop it where you want it to appear.

Adding a New Program to Launch from the Open Labs Shell

If you would like to add for example, Cubase to the [Record] button of the Open Labs shell, follow these steps.

- 1. Make sure there is a shortcut on your desktop of the item you want to create a shell link with. Make sure the item is not named "shortcut to Cubase". Rename the item appropriately.
- 2. While the shell is running, hit "windows key + E". This launches Windows Explorer.
- 3. Browse over to your desktop.
- 4. Drag the shortcut from desktop to the Open Labs Shell Icon in the bottom left of the screen. Once you get to the Open Labs icon, the other tabs will show themselves, keep dragging the item until you get over the [Record] button.
- 5. Release the shortcut over the [Record] button, and it will be added to the shell.
- 6. Relaunch the shell.