E-MU Systems Production Tools Software Bundle

PTSB-6







Tutorials

for

E-MU Production Tools Software Bundle (PTSB-6)

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Revision: A

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TUTORIALS

Introduction

This guide contains step-by-step tutorials of basic recording operations using your E-MU audio interface and four of the applications in the E-MU Production Tools Software Bundle (PTSB-6).

Cubase LE5 - - - 24-bit multi-track audio/MIDI sequencer for OS X/Windows Sonar LE 8.5 - - 24-bit multi-track audio/MIDI sequencer for Windows Ableton Live Lite 8- an innovative composition and live performance tool for OS X and Windows

Proteus VX - - - - a software sound module with 1000 sounds for Windows

We highly encourage you to install the software and follow along with the tutorials so that you can learn by doing. The first tutorial only takes about half an hour to complete, by which time you'll know how to make multitrack recordings and much more.

NEED MORE HELP?

If you need additional help with the bundled applications, please see:

- Windows: Program Files\Creative Professional\ [Your E-MU Product]\Documents\3rdParty.htm
- OS X: Applications Drive\Library\Documentation\
 [Your E-MU Product]\3rdParty.htm\

Before you Begin...

- You should have already installed and tested your E-MU audio interface.
- You should hear the computer sounds coming out of the E-MU audio interface and your speakers when you play a CD or an MP3 using Windows Media Player or iTunes.

If not, refer to the Quick Start Guide or pdf manual (located under Help in the PatchMix or USB Audio Control Panel application) to make sure that the drivers are correctly installed and that your audio interface is properly connected. If necessary, uninstall the E-MU Drivers, then reinstall following the instructions in the manual.

- You should have already installed Cubase LE5, Sonar 8.5 LE, and Ableton Live Lite 8 E-MU Edition software on your computer. Windows users should also have the Proteus VX software sound module installed.
- A source of audio should be connected to the inputs (a microphone, musical instrument, or CD/MP3 player).

IMPORTANT - Digital Audio System owners:

Select the **Product Default** session in PatchMix before launching any of the third party applications. This will ensure that ALL your available inputs appear in the audio applications and will avoid unnecessary confusion.

• To Select the Product Default Session:

- 1. Select **New Session** (**D**) from the PatchMix Mixer view.
- 2. Select Product Default from the list of available Templates and click OK.
- 3. Click OK again when the Session Settings dialog box appears.
- 4. Close the PatchMix DSP Mixer.

Additional sound banks are available for the Proteus VX software sound module. Go to E-MU Sound Central at: http://www.emu.com/ shop/

NOTE

Proteus VX sound banks are loaded into system RAM. Some factory sound sets may be too large to fit into your available RAM.

Proteus X2, Emulator X2 and Emulator X3 have vastly expanded capabilities over Proteus VX and both stream samples from your hard disk requiring far less available RAM space.

WARNING!

Windows Users -After checking your audio, be sure to quit Windows Media Player.

Getting Started with Steinberg Cubase LE5

(Windows, OS X)

Steinberg Cubase LE5 is a 24-bit, multi-track audio/MIDI sequencer with highquality effects, automation, virtual instruments (VSTi), and many other professional features.

The following step-by-step tutorials are designed to get you recording as quickly as possible.

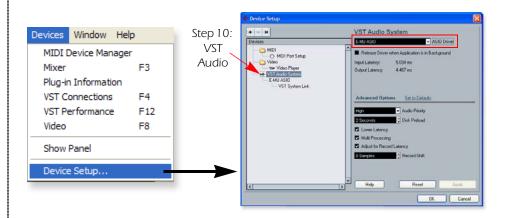
1 - Setting up Cubase LE

Follow these instructions carefully to ensure that Cubase LE5 runs smoothly the first time. Cubase LE will remember these settings, so you'll only have to do this once.

- 1. **Open Cubase LE** from the Start menu. An ASIO multimedia driver test dialog box will pop up to ask if you want to run the ASIO test. Choose **No**, because you won't be using the driver anyway.
- 2. Select **New Project** from the **File** menu.
- 3. Select Empty and click OK.
- 4. A **Select Directory** pop-up dialog box will appear. Choose a location on your hard disk where you want to store your audio files, then click **OK**.



- 5. The Cubase LE Project window appears.
- 6. Select Device Setup... from the Devices menu.



- 7. Select VST Audio System from the left pane.
- 8. Select the ASIO Driver. Choose your E-MU interface from the list.
- 9. A pop up dialog box asks you if you want to keep or switch the ASIO driver. Select **Switch**.

ТΙР...

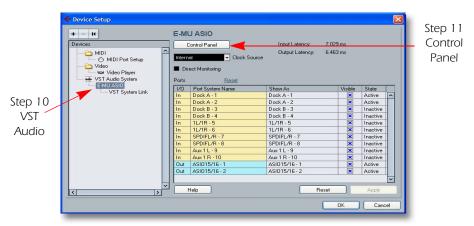
If you have two or more hard disks, it's better to store audio files on a disk that isn't running your OS.

WARNING!

DO NOT select the "ASIO Multimedia Driver" or the "ASIO Direct X Full Duplex Driver."

Buffer Latency Setting

10. Click on the name of your E-MU interface that appears immediately below VST Audio System in the Devices pane. Refer to the following screen.



- 11. Click the **Control Panel** button. The pop-up dialog box shown at right appears.
- 12. Set the **ASIO Buffer Latency** as low as your computer will allow and click **OK**.

(10ms is a good starting point.) A low latency setting is important to assure fast response when using virtual instruments and to minimize delay when monitoring through



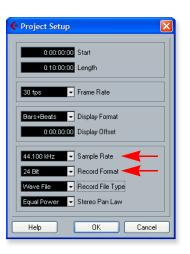
Cubase. If you hear crackles or other audio problems, try increasing the Buffer Size.

13. Close the Device Setup screen by clicking OK.

Setting up a New Project

14. Select **Project Setup** (Shift +S) from the **Project** menu. This is where you set the Sample Rate and Record Format (bit depth), among other things. Set the Record Format to **24 Bit** and the Sample Rate to **44.100 kHz**.

Note: We chose 44.1kHz because it is the most widely used. Feel free to use any sample rate you wish. When changing sample rates, always remember that all your software and hardware MUST be set to the same sample rate.



NOTE

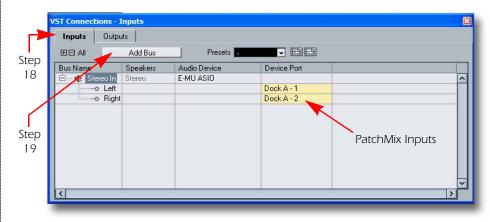
E-MU 0202 Control Panel is shown at left. The Bit Depth field does not appear with products which use PatchMix.

NOTE

If the Cubase LE application crashes for any reason, it is recommended that you reboot the computer. Optional - Add Additional Input Busses

If you are using an E-MU audio interface that has more than two inputs, the following instructions will allow you to select these extra inputs to feed your audio tracks.

15. Select VST Connections (F4) from the Devices menu.



TIP . . .

You can also Rename your Input Busses here to avoid confusion when assigning Inputs to tracks.

- 16. Select the Inputs Tab, revealing the window shown above.
- 17. Click the **Add Bus** button. The pop-up dialog box shown at right appears.
- 18. Select the number of mono or stereo input busses you want, then **click OK**.
- 19. Additional mono or stereo busses appear in the list. Note that the actual PatchMix input label appears in the Device Port field.



- 20. Close the window by clicking the close box. ☐ The inputs you added will now be available for selection in the Track Input field of the Inspector pane.
- 21. Now you're ready to record. (Don't worry, Cubase LE remembers all these settings.)

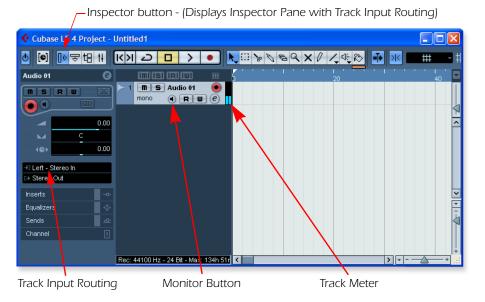
2 - Basic Multitrack Recording

This tutorial assumes you're using a single input or a pair of inputs. For more advanced recording, refer to the Cubase LE manual.

Add an Audio Track

1. From the Cubase LE menu bar, select **Project**, **Add Track**, **Audio**. A pop-up dialog box appears, asking you if you would like to add a mono or stereo track. **Choose a mono track** for now. After making your selection, **click OK**. A new audio track is added to the project window.

Add Track	•	🕨 🕨 Audio	• Add Audio Track
Duplicate Tracks Remove Selected Tracks Show All Used Automation Hide All Automation	ı	MIDI	Audio Track Configuration
Pool Markers Fempo Track	Ctrl+P Ctrl+M Ctrl+T	Folder Group Channel T.T. Marker	count conguration speakers
Project Setup Auto Fades Settings	Shift+S	III Video	OK Cance



- 2. The **Track Input Routing** field is where you connect your audio inputs to the track. "Left-Stereo In" will appear in the Track Input field. You can change this to "Right-Stereo In" if you want to use the right input. (*Click and hold the mouse over the label.*)
- If you added extra VST Connections (Step 17 on the previous page), you'll be able to choose additional inputs.
- 3. Make sure the Monitor button () is OFF. You will be direct monitoring the input through your E-MU Interface. The **Product Default** session in PatchMix is already set up for hardware monitoring.

Important: If you use hardware Direct Monitoring, you will not be able to hear VST effects inserted on the track. If you wish to monitor your VST effects while recording, turn Off Direct Monitoring and use software monitoring.

4. If you own an E-MU USB interface, press the **Direct Monitor** button. If you are recording a mono track, set Direct Monitor to **Mono** by pressing the Direct Monitor button again.

Get Ready To Record

- 5. Plug in your instrument or microphone. Press the **Monitor button**, **•** turning software monitoring **On**. You should see activity on the Track Meter (see above) when feeding a signal into the input. This step verifies that you are routing the correct input to your track. If you don't see meter activity, check your input routing.
- 6. Press the Monitor button (again, turning software monitoring Off.
- 7. **Optional Step Metronome:** To toggle the Metronome on and off, press C on the computer keyboard. To adjust the metronome output level, press the transport **Play** control, then select **Metronome Setup...** from the **Transport** menu. Use the volume slider to set the desired metronome level.
- 8. Press the Go to Previous Marker / Zero button.
- 9. Make sure the **Record Enable** button on the track is on (it should be on by default).



E-MU USB Interfaces:

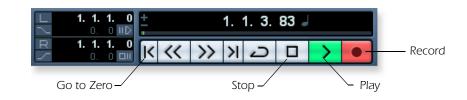


The Direct Monitor Button routes the inputs directly to the outputs.

NOTE

Turning on the metronome adds a 2-bar lead-in before recording begins.

10. Press the **Record** button on the Cubase transport control panel. The button turns red and you're recording.



- 11. When you're finished recording your track, press the **Spacebar**, or press the **Stop** button on the Cubase Transport Control.
- 12. Press the **Go to Zero** button.
- 13. Press the **Spacebar** or press the **Play** button to play back your new Track.

Record Another Track

- 14. Press the **Go to Zero** button.
- 15. Drag the audio chunk you just recorded down below itself and release the mouse button. A new track is automatically created with your recording. This is a quick and easy way to set up a new track in Cubase. Now you're all set to record again on Track 1.



- 16. Press the **Record** button on the Cubase transport control panel and you're recording again. You'll hear your first track playing along with you.
- 17. Repeat steps 12-14 to record more audio tracks.
- 18. Press the Mute button **m** to silence any tracks you don't want to hear.

3 - Recording a MIDI Track using the Proteus VX Sound Module

(Windows only)

You'll need a MIDI interface and a MIDI keyboard (or other MIDI input device) for this tutorial. Please refer to the Proteus VX manual for the complete set of instructions (*located under the Help menu item*).

Make the Connections

- 1. Connect the MIDI out of your MIDI keyboard to the MIDI input of your MIDI interface.
- 2. From the Project menu, select Add Track, Instrument.

Add Track		▶	Audio
uplicate Tracks		Ш	Instrument
emove Selected Tracks			MIDI
lide All Automation	1	Ę	FX Channel
ool	Ctrl+P	6	Folder
1arkers	Ctrl+M	Ψ	Group Channel
empo Track	Ctrl+T	11	Marker
Project Setup Auto Fades Settings	Shift+S	II	Video

3. A pop-up dialog box appears asking you to select a VST Instrument. **Select Proteus VX**. Select a **Count of 1**. Click **OK**.



After a short delay, the Cubase Project Window should now look more or less like the one below with one or more Audio tracks and one Instrument track:



NOTE

Proteus VX can also run as a standalone application.

NOTE

Selecting a Count of 2 or more, instantiates multiple copies of Proteus VX, which results in very inefficient usage of your CPU. (See the note on page 13.)

NOTE #2

If you have Proteus X or Emulator X, you can select these in place of Proteus VX. Open VX & Load a Bank

4. Since Proteus VX uses samples as the basis of its sound, you need to load a bank of samples before it can be played. The Edit Instrument button, located in the Inspector section of the window, allows you to edit the virtual instrument.



5. Click the Edit Instrument button. The Proteus VX main window appears.

P	reset Inc/Dec Keys	MIDI Channel Selection	n
ProteusVX			
File Edit View Multisetup Options Help 📾 🖛 🔿 🏠 😂 🖬 🕹 🛍		UPGRADE	NOW
Proteus VX VSTi (Untitled.exb)	SINGLE 1-1		AUX FX 3
Presets	PRESET 🖲 🍐 ——— TYPE 🌨 CHANNE	EL 🕐 🌢 BANK::PROGRAM	-
Multisetups	P All Category 01	: Dry	
	< None>	MIDI Channel	Ĩ
		CATEGORY	
	VOLUME	PAN 0	
	Bus 1 TRA		
	MIDI CONTROLLERS	MASTER SETTINGS	VOLU
			0
	CTRLE ONLY CTRLF ONLY CTRLS ONLY CTRLH		
		• Off	
		2 Off ▼ 8 Off ▼	
		- Not Set -	
	OTRLM STUD OTRLN STUD OTRLO STUD OTRLP ST		+0.
		TWISTALOOP OVERRIDE LOOKTO - Not Set ON CON RELEASE	+0.

- 6. Now we can load the Proteus X Composer bank. Select Proteus X Composer from the Proteus VX File menu. The bank is installed here: "Program Files\Creative Professional\E-MU Sound Central\Proteus X Composer." The bank might also be listed at the bottom of the file menu pulldown. Loading may take a little while.
- 7. Change the Preset using the Inc/Dec keys. You also have to select a preset before you can hear anything. There are 1024 different presets (sounds) in this huge bank.
- 8. Bring up the **mini keyboard m** by clicking the icon on Proteus VX and play a few notes. You should be hearing sound.
 - If the sound volume is very low, you can decrease the Headroom of Proteus VX. (Options, Preferences, Headroom/Boost) Keep in mind that with less headroom, the Proteus VX will be more prone to clipping when multiple channels are played.
- 9. **Play your MIDI controller** and verify that it plays Proteus VX. If not, check to make sure your MIDI keyboard is set to the same MIDI channel number as Proteus VX (*probably channel 1*).
- 10. Try out the MIDI Controller knobs on your MIDI keyboard. In order for these to work, the continuous controller numbers of your keyboard knobs must match those on Proteus VX. (Options, Preferences, Controllers tab).

ΤΙΡ . . .

Increase the headroom setting (more positive) to increase the volume and decrease the amount of available headroom. 11. Feel free to play around for awhile and don't worry about losing anything. Nothing is made permanent until you **Save** the bank, so have fun.

To Record a MIDI Track

12. Make sure the **Record Enable** button on the MIDI track is on (it should be on by default).



13. Click **Record** on the Cubase LE Transport control and start playing your MIDI controller.



- 14. Press Stop when you're finished recording the first track.
- 15. Press the **Go To Start** button.
- 16. Press **Play** > on the Cubase Transport to play back your track.

To Record a MIDI Track on another MIDI Channel

NOTE: Proteus VX VSTi can play back up to 16 MIDI tracks at once, however, the LE version of Cubase 5 only supports a single MIDI channel per VSTi. You *could* load another instance of the Proteus VX for each additional channel, but this is a very inefficient usage of your CPU resources and is NOT recommended. The full version of Cubase 5/Nuendo 5 does support multiple MIDI channels on a single VSTi.

Program Changes

Cubase LE allows you to insert **MIDI Program Change** messages in the MIDI sequence. (Key Editor, List Editor, Insert Program Change) This trick makes it possible to use more than one Proteus VX preset in a song.

Save As / Save As Template

Now might be a good time to save your project so you can come back to it later. Simply select **Save As . . .** from the File menu and choose a location for the project.

Cubase LE also allows you to save the project as a *Template*. You are offered to load your saved Templates when you select a **New Project** from the File menu.

On Your Own

This tutorial only covers the basics of recording tracks with Cubase LE and Proteus VX. From here we recommend you make use of the excellent documentation included with Proteus VX and Cubase LE, which can be found in their Help menus.

The internet is also a vast source of information about the included software and digital audio recording in general. We have provided a few relevant links on the last page of this document. Good luck and have fun!

ΤΙΡ . . .

To quickly browse through the presets, place the cursor in the preset number and use the up/down arrow keys on your computer keyboard to select presets.

Getting Started with Cakewalk Sonar 8.5 LE

(Windows)

Sonar LE 8.5 is a 24-bit multi-track audio/MIDI sequencer with high-quality effects, automation, virtual instruments (VSTi/DXi), and many other professional features.

The following step-by-step tutorials are designed to get you recording using Sonar 8.5 LE. After you finish the tutorial we encourage you to read the Sonar 8.5 LE pdf manual in order to learn about the many features of this comprehensive program.

1 - Setting up Sonar LE

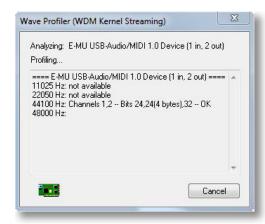
Follow these instructions carefully to ensure that Sonar LE runs smoothly the first time. Sonar LE will remember these settings, so you'll only have to do this once.

Run Sonar LE for the first time

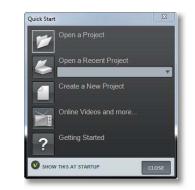
1. After installation Sonar LE will automatically open. After completing the product registration, the following dialog box appears:

i	We will now perform a series of profiling tests on your audio hardware to obtain all supported operating modes and buffer sizes.
	Would you like to continue?

2. Click the Yes button to allow the Wave Profiler to analyze your audio system.



3. When the Wave Profiler has finished, Sonar LE opens and the following dialog box appears.



4. Click **Close** to close the dialog box. The Sonar Project Window appears.

Set-up the Audio Options

5. From the **Options** menu, select **Audio**. The dialog box shown below appears.

General Advanced Driv	vers Driver Profiles	ОК
Playback Timing Master:	1: E-MU 0202 USB 1/2	Cance
Record Timing Master:	1: E-MU 02021 USB -	Help
Audio Driver Bit Depth:	24 - 64-bit Double Precision Engine	Apply
Stereo Panning Law:	0dB center, sin/cos taper, constant power]
Buffers in Playback Quer	10.0 msec	
Fast	441 samples Safe Hz/stereo: 10.0 msec	
Effective latency at 44kr		

- 6. Make sure that the Audio Driver Bit Depth is set to 24.
- 7. Click on the Advanced tab to access the next window.

General Advanced Dri File System	vers		ОК
Enable Read Cachin	a 🗉	Enable Write Caching	Cano
Playback 1/0		Breadling	Help
Buffer Size (KB):	256	Buffer Size (KB): 256	Appl
Playback and Rec	ordina	Synchronization	
таураск ано пес	oraing		
Driver Mode: ASIO	•	 Trigger & Freewheel (Best when sound card has a 	
Dithering: Triangula	ar 🔹	word clock input.)	
Share Drivers With Ot	her Programs	Full Chase Lock	
Use Multiprocessing E	-	(Best when chasing to MIDI time code.)	
Use MMCSS (Window	-	Timing Offset (msec): 0.000	
Play Effect Tails After	Stopping		
Always Open All Devi	ces		
Remove DC Offset Di	uring Record	Configuration Settings	
Record Pre-allocate File (seconds):	0	Edit Config File	
Fade On Start (milliseconds):	0	Reload Config Settings	
Fade On Stop (milliseconds):	0	Reset Config To Defaults	
Record Latency A	djustment (:	samples)	
Device: E-ML	JASIO (5 in, 1	1 out) 👻	
Manual Offset: 0	+	Use ASIO Reported Latency: 310	
Manual Ottset	-	Use ASIC Reported Latency: 510	

8. Select **ASIO** as the Driver Mode, then click **Apply**.

9. Click the **Drivers** tab.

	71-11-01-12	
Check/uncheck an entry to enabl Click on a friendly name to edit it.	e/disable the driver.	Cance
Input Drivers		Help
Friendly Name	Driver Name	Apply
E-MU ASIO Dock A	E-MU ASIO Dock A	Арру
E-MU ASIO Dock B	E-MU ASIO Dock B	
E-MU ASIO 1L/1R	E-MU ASIO 1L/1R	
E-MU ASIO SPDIFL/R	E-MU ASIO SPDIFL/R	
E-MU ASIO Aux 1 L	E-MU ASIO Aux 1 L	
Generic Low Latency ASI	Generic Low Latency ASIO	
<u>O</u> utput Drivers		
Friendly Name	Driver Name	
E-MU ASIO ASIO 15/16	E-MU ASIO ASIO15/16	
Generic Low Latency ASI	Generic Low Latency ASIO	
Use friendly names to represe	ent audio drivers.	

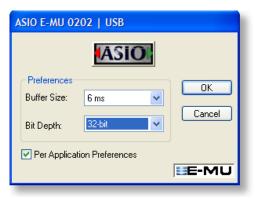
- 10. Make sure that all inputs and outputs corresponding to your E-MU interface are checked. This setting determines which inputs and outputs are available in the Track View of Sonar.
- 11. Click on the **General** tab. Note that the Mixing Latency options have now changed because you selected ASIO drivers.

General Advanced Dri	vers		ОК
Playback Timing Master:	1: E-MU ASIO ASIO15/16	•	Cancel
Record Timing Master:	1: E-MU ASIO Dock A	•	Help
Audio Driver Bit Depth:	24 - 64-bit Double Precision Engine		Apply
Stereo Panning Law:	0dB center, sin/cos taper, constant power	•	
D-(1) C-11 (-	N D		
Default Settings fo Sampling Rate: 44100			
Mixing Latency			
Buffers in Playback Que	ue: 2 =		
Buffer Size:	5.0 msec 264 samples Safe		
Effective latency at 44k	Hz/stereo: 6.0 msec		
ASIO Panel	es: (includes buffer and hardware latencies)		
a la su) msec, 310 samples		
Output: 7.2	2 msec, 316 samples		
Total Roundtrip: 14	.2 msec, 626 samples		

12. Click on the ASIO Panel button. The ASIO latency dialog box appears.

13. Set the **Buffer Size** somewhere between 4 and 12 ms (milliseconds). The exact setting depends on the speed of your computer. A low latency setting is important to assure fast response when using virtual instruments and to minimize delay when monitoring through Sonar.

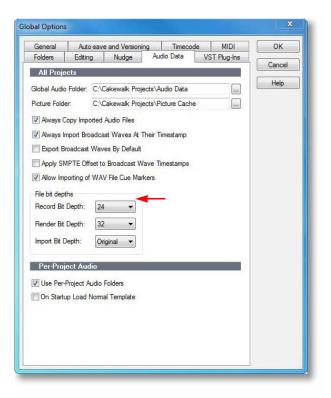
> If the buffer size is too large, sluggish performance will result. On the other hand, if the buffer size is too small, gaps in the



audio and stuttering will most likely result. If you hear crackles or other audio problems, try slightly increasing the Buffer Size.

You may have to experiment to find the optimal setting for your computer. As you add more audio tracks, plug-ins and other processes, you may need to increase the Buffer Latency setting.

- 14. Set the Bit Depth to 32-bit and check "Per Application Preferences."
- 15. Close the Audio Options screen by clicking OK.
 - **Note:** If the Sonar LE application crashes for any reason, it is recommended that you re-boot the computer.
- 16. Now select Global from the Options menu.
- 17. Select the Audio Data tab as shown below.



- 18. Set the **Record Bit Depth** to 24 bits to use the best possible resolution.
- 19. Set the Global Audio Folder location where your huge audio files will be kept.
- 20. Click **OK** to dismiss the Global Options.

ΤΙΡ . . .

If you have two or more hard disks, it's better to store audio files on a disk that isn't running your OS. We're almost finished with the setup!

- 21. If you have a MIDI interface or USB keyboard connected (such as the E-MU Xmidi 2x2, Xboard, or a Digital Audio System), select **MIDI Devices** from the **Options** menu.
- 22. **Select the MIDI ports** you wish to use. In the example shown, we are using the two ports from the E-MU 1616 and two more ports on an E-MU XMIDI 2 x 2.

Inputs		Cancel
Friendly Name	Device Name	1
E-DSP MIDI Port [9C00] E-DSP MIDI Port 2 [9C00] E-MU XMidi2X2 MIDIIN2 (E-MU XMidi2X2)	E-DSP MIDI Port [9C00] E-DSP MIDI Port 2 [9C00] E-MU XMidi2X2 MIDIIN2 (E-MU XMidi2X2)	Help
Outputs Friendly Name	Device Name] []
 E-DSP MIDI Port [9C00] E-DSP MIDI Port 2 [9C00] E-MU XMidi2X2 MIDIOUT2 (E-MU XMidi2) 	E-DSP MIDI Port [9C00] E-DSP MIDI Port 2 [9C00] E-MU XMidi2X2	
Move Checked Devices to T	op]

23. A MIDI interface and/or MIDI keyboard is necessary to use the included Proteus VX sound module and other virtual instruments.

Shameless Plug: If you don't have a keyboard, may we recommend the E-MU LONGboard or SHORTboard. These are quality musical instruments with a built-in MIDI interface. If you have a MIDI keyboard, but need a MIDI interface, the E-MU XMIDI 1x1 or XMIDI 2x2 will fill your need admirably. Go to www.emu.com to see what we have to offer.

24. **Close Sonar LE** completely and restart the application. This is always a good idea after changing audio settings. Now you're ready to begin the tutorial.

2 - Basic Multitrack Recording

This tutorial assumes you're using a single input or pair of inputs. Sonar opens with 1 audio track and 1 MIDI track by default.

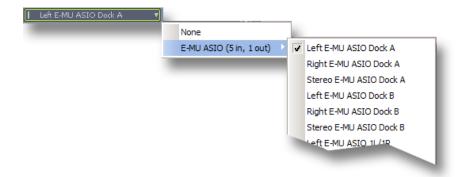
The Sonar Project Window

The Track Pane	The Clips Pane
	1
SONAR 8.5 Producer - [New Song - Track]	
File Edit Process Views Insert Transport Go Tra	cks Tools Options Windows Help
🗄 📖 🛛 📰 💐 📰 🏣 🌃 🕍 120.00	
1 1 1 1 0 1 R 1 A 1 2 1 4 2	
00:00:00:00	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
	Track Record Enable Step 5
	4
Haster M S (20 W) 43 - 1 Master Of C A C A Nove 4 C A A A A A A A A A A A A A A A A A A A	
Image: Section of the sectio	V C C C C C C C C C C C C C C C C C C C

1. Track 1 is an audio track. Locate the input and output routing fields in the Track Pane as shown at right.



2. Select the input source by clicking on the small triangle on the input field. Select the desired input from the list.



- 3. The Input Echo button 🔊 should be OFF. You will be direct monitoring the input through your E-MU Interface.
- 4. If you are using an E-MU USB interface, press the **Direct Monitor** button. If you are recording a mono track, set Direct Monitor to **Mono** by pressing the Direct Monitor button again.

ΤΙΡ . . .

You may have to Maximize the track in order to see the Input and Output routing fields.



Getting Started with Cakewalk Sonar 8.5 LE 2 - Basic Multitrack Recording

ТΙР . . .

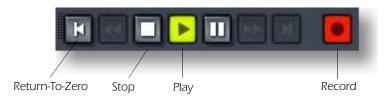
If you don't see meter activity on the track after enabling Record, check the Input for the track. Make sure you are selecting the proper input source. 5. Press the **Track Record Enable** button **r** for the track (*see the diagram below*). The track turns a dull red color to indicate that it is record-enabled. You should now see activity on the **Track Input Meter** when feeding a signal.



6. Adjust the input level so that the meter comes near -6dB without ever going into the red.

Record a Track

7. Press Record on the Sonar LE Transport control and start playing.



- 8. Press Stop when you're finished recording the first track.
- 9. Press Play on the Sonar LE Transport to play back your track.
- 10. If you want to dump the track and start over, **click over the waveform display** in the track and press **Delete** on your computer keyboard.

Create another Audio Track

11. From the **Insert Menu**, select **Audio Track**. Track 3 appears in the Project window.

Record another Track

- 12. Select Track 3 and click the Restore Strip Size button 🗗 to expose the input and output routing.
- 13. Set the Input source for the track. Click on the little triangle ▼ on the right side of the track Input box.
- 14. Disable record for Track 1 by clicking on the Track Record button Off.
- 15. Enable recording for Track 3 by clicking on the **Track Record** button **On**.
- 16. Press the transport **Record** button and you're recording.

Hot Tip: A quick way to record additional tracks using the same input is to simply drag the Part (audio region) you just recorded up or down to another audio track in the Sonar Project Window, then just hit **Record** again and go. (Choose **Blend Old and New** if asked in the Drag & Drop Options.)

Save your Project

17. Choose **Save As...** from the Sonar LE **File** menu to save your project. Choose a name and location that will make the project easy to find later.

TIP . . .

You can also create a new track by selecting Clone, from the Track menu. This handy feature duplicates the currently selected track complete with input/output routings.

3 - Recording a MIDI Track using the Proteus VX Sound Module

These instructions explain how to start Proteus VX from within Sonar LE. You'll need a MIDI interface and a MIDI keyboard (or other MIDI input device) for this tutorial. Please refer to the Proteus VX manual for the complete set of instructions *(located under the Help menu item)*.

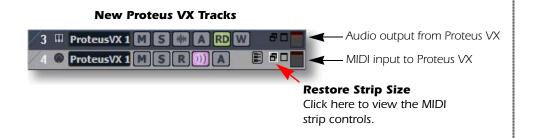
1. Connect the **MIDI output** of your MIDI keyboard to the **MIDI input** of your MIDI interface.

Select the Virtual Instrument	Insert	
 From the Insert menu, select Soft Synths, E-MU, ProteusVX from the View menu. 	Bank/Patch Change Meter/Key Change Iempo Change Time/Measures	
	Marker F11 Controllers Series of Tempos	
	Soft Synths DreamStation DXi2 ReWire Devices DropZone Audio Track E-MU (ProteusVX) MIDI Track Triangle II Multiple Tracks vstplugins	
	Stereo Bus Waldorf	J

3. The following pop-up dialog box appears.

nsert synth into project, and: Create These Tracks: Simple Instrument Track MIDI Source Synth Track Folder	Open These Windows: Synth Property Page Synth Rack View	OK Cancel Help
♥ First Synth Audio Output All Synth Audio Outputs: Stereo All Synth Audio Outputs: Mono		
Enable MIDI Output Display Automation On:		
Ţ	📝 Recall Assignable Controls	

4. Select the options (MIDI Source, Synth Track Folder, First Synth Audio Output) as shown. Click **OK** to continue. (You may have to wait a few seconds.) Proteus VX is added to the synth rack and two new tracks have been added to the track list.



NOTE

Proteus VX can also run as a stand-alone application.

Getting Started with Cakewalk Sonar 8.5 LE 3 - Recording a MIDI Track using the Proteus VX Sound Module

The MIDI Connection

5. Make sure that your MIDI Interface is selected as the MIDI input in Omni mode by clicking on the "Restore Strip Size" box on the new MIDI track that was created.



• Note: "Omni" mode allows Proteus VX VSTi to receive on all 16 MIDI channels from your MIDI keyboard. (Proteus VX VSTi is "multi-timbral" and can assign a different preset to each of the 16 MIDI channels.)

Open Proteus VX

6. Double-click on the **keyboard icon** in the Synth Rack located at the bottom of the track window to open the Proteus VX editor.

 ProteusVX 1	No Preset	F	H S
			READ WRITE

Double-Click Here to Open Proteus VX

7. You can also click on the keyboard icon in the synth track itself.

Synth Track with Proteus VX

Double-Click Here — to Open Proteus VX	🔶 🖩 ProteusVX 1 🕅 S 🐏 🖪 🔞 🖤 🕘 🗖
	4 @ ProteusVX 1 M S R))) A E B

8. After a few seconds, the Proteus VX editor screen appears.



ТІР . . .

Check the Sonar MIDI Monitor Min the SysTray to verify that you're receiving MIDI.

Load the Proteus X Composer Bank

Before you can play Proteus VX, you have to load a bank of sounds. (This information will be saved when you save your Sonar LE Project.)

- 9. Open the Proteus X Composer bank. Select Proteus X Composer from the Proteus VX File menu. The bank is installed here by default: "Program Files/ Creative Professional\E-MU Sound Central\Proteus X Composer." Loading takes a few seconds.
- 10. Change the Preset using the Inc/Dec keys. This bank contains 1024 different presets (or sounds).
- 11. Bring up the **mini keyboard m** by clicking the icon on Proteus VX and play a few notes. You should be hearing sound.
 - Note: If the sound volume is very low, you can decrease the Headroom of Proteus VX. (Options, Preferences, Headroom/Boost) Keep in mind that with less headroom, Proteus VX will be more prone to clipping when multiple channels are played. Watch the output meters on Proteus VX!
- 12. **Play your MIDI controller** and verify that it plays Proteus VX. If not, make sure that your MIDI keyboard is set to the same MIDI channel number as Proteus VX (*probably channel 1*). You can also change the MIDI channel of Proteus VX using the channel Inc/Dec keys shown on the previous page.

Play a Few Presets

- 13. To Audition Presets: first highlight the preset number (i.e. **P0000**), then scroll through the presets using the up/down keys on your computer keyboard.
- 14. Try out the MIDI Controller knobs on your MIDI keyboard. In order to work, the continuous controller numbers of your keyboard knobs must match those on Proteus VX. (*Refer to the manual that came with your MIDI keyboard, or change the controller numbers on Proteus VX, located under Options, Preferences, Controllers tab.*)
- 15. Select the 16 channel tab. This page allows you to select presets for all 16 MIDI channels.

16 Channel Tab	/ Select Prese	et		
SINGLE 1-16				
MIDI PRESET	VOLUME	127	PAN	0
		127		0
		127	_<	0
04 <none></none>		127	î	0
os <none></none>		127	1	0
o6 <none></none>		127)(0
07 <none></none>		127)(0
08 <none></none>		127)(0
09 <none></none>		127		0
10 <none></none>		127]	0
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12 <none></none>		127	_=]	0
13 <none></none>		127)	0
14 <none></none>		127		0
> 15 <none></none>		127		0
15 <none></none>		[127] [0

16. Select a preset for MIDI Channel 1 by clicking the little triangle.

ΤΙΡ . . .

Increase the headroom number to increase the volume of Proteus VX. Alternatively, boost the gain elsewhere in your system.

Getting Started with Cakewalk Sonar 8.5 LE 3 - Recording a MIDI Track using the Proteus VX Sound Module

WARNING!

Loading another instance of the Proteus VX for each channel is a very inefficient usage of your CPU resources and is NOT recommended.

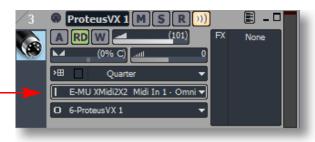
NOTE

You can also select a single preset for the track by selecting the Program Change number you want (Insert, Bank/Patch Change). To Record a MIDI Track

- 17. Minimize the Proteus VX window by pressing the minimize button on Proteus VX.
- 18. Maximize the Proteus VX MIDI track by pressing the Maximize button.



19. The Track Pane expands to show all the track options, as shown at right. Set the Channel field (CH) to **Omni.** (*This allows MIDI data on ANY incoming MIDI channel to be recorded.*)



- 20. Restore the Strip to its normal size by clicking the "Restore Strip Size" button.
- 21. **Record-Enable** the MIDI Track by pressing the red **Record** button. **R** The clips pane section of the track turns a dull red color to indicate that it is record-enabled.
 - **IMPORTANT:** Be sure to turn Track Record Enable **OFF** for any tracks you don't want to record on, such as previously recorded tracks.



- 22. Set your MIDI keyboard to transmit on MIDI Channel 1 and verify that you hear the Proteus VX playing as you play your MIDI keyboard.
- 23. Press Record on the Sonar LE Transport control and start playing.

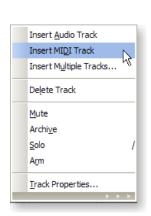


- 24. Press Stop (or hit the Spacebar) when you're finished recording the first track.
- 25. Press Play on the Sonar LE Transport to play back your track.

To Record a MIDI Track on another MIDI Channel

Proteus VX VSTi can play back up to 16 MIDI tracks at once with a different preset on each channel. Using several channels on one VSTi uses far fewer CPU resources than using multiple VSTi's with one channel each.

26. **Right-click anywhere in the Track Pane below the previous MIDI track.** A pop-up menu appears. **Select Insert MIDI Track.**



- 27. Maximize the Proteus VX MIDI track by pressing the Maximize button.
- 28. Make sure Omni is selected as the MIDI input (see below).
- 29. Make sure Proteus VX is selected as the Output. 28 28 29 29 6-Proteus VX 1
- 30. Record Disable the previous MIDI track by clicking the **Track Record Enable** button.
- 31. Record Enable your new MIDI track by clicking its **Track Record Enable** button.

⁄2	💷 Proteus¥X 1	MS#	80	
⁄3	Proteus¥X 1	M S R 🛃		Record Disable this track
4	Track 4	M S R <	- 80	– Record Enable this track

- 32. Restore the Proteus VX editor by **double-clicking on the little keyboard icon** in the Proteus VX track.
- 33. Select a preset for channel 2 by **clicking the little triangle on channel 2** in the 1-16 channel view of Proteus VX.

IDI PRESET		VOLUME	A State of Long	PAN	
1 P0000 Dynamic Grand	<u>\</u> -		127 -		0
2 P0001 Yo My Dynos	- T		127 -		0
3 <none></none>	- 1		127 -		0
4 <none></none>	-] -		127 -		0
s <none></none>	-] -		127 -		0
<none></none>	- [-		127 -		0
7 <none></none>	- 1-		127 -		0
a <none></none>	-] -		127 -		0
9 <none></none>	- [-		127 -		0
IO <none></none>	- 1-	<u> </u>	127 -		0
(None>	- 1		127 -		0
2 <none></none>	- [-		127 -		0
3 <none></none>	-] [-		127 -		0
4 <none></none>	-		127 -		0
IS <none></none>	+ -		127 -		0

- **34.** Set your MIDI keyboard to transmit on MIDI Channel 2 and verify that you hear the Proteus VX playing as you play your MIDI keyboard.
- 35. Play your MIDI keyboard to listen to the presets during the selection process.
- 36. Click **OK** when you've made your selection.
- 37. Minimize or close Proteus VX when you've made you preset selection.
- 38. Press Record on the Sonar LE Transport control and start playing.

- 39. Press **Stop** when you're finished recording the second track.
- 40. Feel free to record additional MIDI tracks. You have 16 MIDI channels.
- 41. To mix your Proteus VX MIDI tracks, use MIDI Controller 7 (Volume) transmitted by your MIDI keyboard. The MIDI controllers can be recorded by Sonar to create an automated mix.

On Your Own

Now that you've had a little taste of what Sonar LE and Proteus VX can do, please read the Proteus VX Operation Manual pdf *(located under the Help menu)* to learn all about this exceptional instrument. Sonar LE also includes useful online documentation and help files to help you learn about the many other features of this powerful program.

TIP . . .

The Export Multisample feature of Proteus VX allows you to save a bank containing ONLY the presets and samples used in the Multisetup. This gives you a smaller Project and a MUCH shorter load time.

Getting Started with Ableton Live Lite 8

(Windows/OS X)

This guide contains a basic walk-through of Ableton Live Lite 8 (E-MU Edition) to get you recording and playing back audio. The guide also discusses configuring Live Lite 8 to use VST instruments, such as Proteus VX for Windows. We encourage you to perform the steps on your computer as you read so that you can "learn by doing."

Live Lite 8 is an innovative composition and performance tool. Live combines digital recording, virtual instruments, and digital effects with an original interface design that many people find more intuitive than traditional designs.

The following step by step tutorials are designed to get you recording as quickly as possible. After you've finished the tutorial we encourage you to follow all of Live's excellent interactive lessons and read the Live Reference Manual pdf in order to learn more about the application.

Before you Begin:

- You should have already installed the E-MU software on your computer according to the instructions in your "Getting Started" manual.
- You should have already installed the Live Lite 8 software on your computer and unlocked it according to the instructions provided with the Ableton Live User Manual.
- You should hear sounds from Live Lite 8 when you play the demos.
- PC Users You should have already installed the **Proteus VX** software.
- You should have your MIDI interface and keyboard connected if you want to record MIDI.

1 - Setting up the Preferences

Unlock Live Lite 8, E-MU Edition by following the instructions in the Preferences menu. (*Windows - Options menu, Preferences; OS X - Live menu, Preferences*) Read the following instructions to configure the Audio and MIDI preferences. Live will remember these settings, so you'll only have to do this once.

Set up the Audio Parameters

1. Click the **Audio** tab of the **Preferences** dialog box. The Audio Setup page appears.



NOTE

The first time you run Live, you may get the message, "Audio is disabled. Please choose an audio output device from the Audio Preferences."

Simply follow the instructions in "1-Setting up the Preferences" to correct the situation.

WARNING!

DO NOT select the "ASIO Multimedia Driver" or the "ASIO Direct X Full Duplex Driver." 2. Select **ASIO** as the Driver Type. Select **[your E-MU Interface]** as the Audio Device.

Check the MIDI Parameters

3. Click the **MIDI/Sync** tab of the Preferences dialog box. The MIDI Setup page appears. (Live enables every MIDI input by default.)

Windows Preferences Control Surface Output Input None None
 None
 ♥ None
 ♥ None
 ♥ None 2 None None 3 None 4 None None MIDI None \bigtriangledown \bigtriangledown 5 None None 6 None None Take-Over M None ▽ Track Sync R MIDI Ports On Off Off On Off Off ▷ Input: E-MU XMidi2X2 Midi In 1 ▷ Input: E-MU XMidi2X2 Midi In 2 CPU 0ff 0ff 0ff Output: E-MU XMidi2X2 Midi Out 1 Output: E-MU XMidi2X2 Midi Out 2 Off Off Off Output: Microsoft GS Wavetable SW Synth Off Off Off Off Live Pa OS X 00 Preferences Control Surface Input Output None ♥ None
 ♥ None
 ♥ None
 ♥ None None None None None 2 3 None MIDI None 4 None None Sync 5 None None None 6 None None File None Takeover Mode Record MIDI Ports Track Sync Warp R Launch ▷ Input: E-MU XMidi2X2 (Port 1) On Off Off ▷ Input: E-MU XMidi2X2 (Port 2) On Off Off CPU tho tho tho ▷ Output: E-MU XMidi2X2 (Port 1) Products Output: E-MU XMidi2X2 (Port 2) 0ff Off Off Live Packs

4. Your MIDI interface or USB MIDI keyboard should appear in the list. Make sure it's selected.

Check the File Folder Parameters

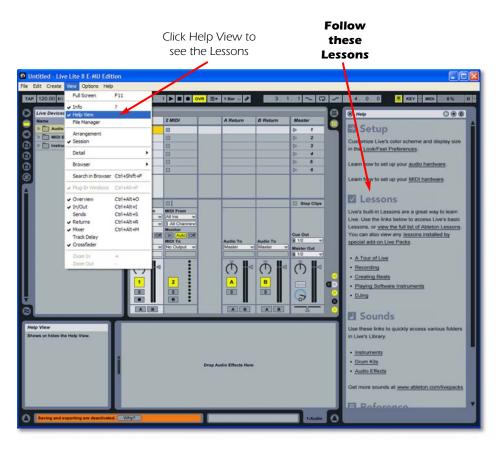
If you have trouble browsing Audio Units or VST Plug-Ins, you may need to manually locate them. Follow the steps below. If you have problems, please refer to the Live pdf manual, located under "Help".

5. Click the **File Folder** tab of the Preferences dialog box. The **File Folder** page appears.

- 6. PC Users: Make sure that "Use VST Plug-In Custom Folder" is selected as shown below. The default location for Proteus VX VSTi is: "C:\\Program Files\Steinberg\VstPlugIns\". If not already selected, browse to this folder unless you're certain that your VST Plug-Ins are stored in another location.
- 7. **OS X Users:** Turn "Use Audio Units On," and browse to the location where your Audio Units (if any) are stored.
- 8. Close the **Preferences** dialog box. Now you're ready to begin composing with Live.

2 - Follow the Live Lessons

Ableton Live contains built-in tutorials to help you learn your way around. If you don't see the **Lessons** pane on the right side of the window, simply select Lessons from the View menu.



You should go through the following lessons before continuing:

- Recording Audio, explains the basics of recording.
- **Playing Software Instruments**, is highly recommended since it provides a good background for using Proteus VX VSTi in Live Lite 8.

After finishing these lessons, feel free to continue on with the rest of the lessons if you so desire. When you're ready to add Proteus VX to the mix, read on.

NOTE

These instructions also apply to Proteus X or Emulator X.

NOTE

Please refer to the Proteus VX manual for the complete set of instructions (located under the Help menu item).

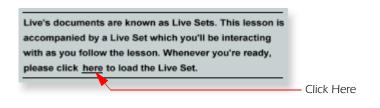
Proteus VX can also run as a stand-alone application.

3 - Running the Proteus VX Sound Module from Ableton Live

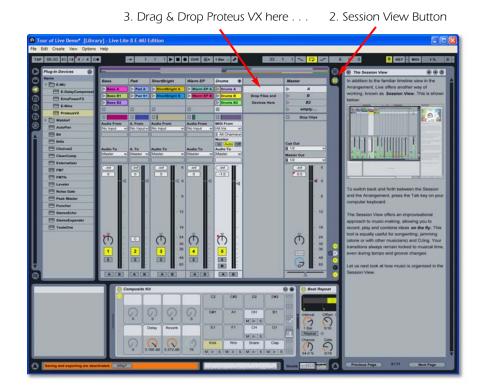
(Windows only)

These instructions explain how to run Proteus VX from within Live Lite 8. Proteus VX adds a professional-quality sample player and over 1000 new sounds and integrates perfectly with Ableton Live Lite 8. In this tutorial, you'll learn how to use a MIDI keyboard and the pre-recorded MIDI loops that come with Live Lite 8 to play Proteus VX.

- In preparation for this tutorial, select the third Live lesson **Improvising With Loops**. If you haven't already done so, go through the Lesson at least once until you are familiar with the concept of loops in Ableton Live.
- 1. Load the **Live Set** associated with the **A Tour of Live** lesson by clicking the button shown below. The **Tour of Live Demo** appears.



2. Press the **Session View** button. **(1)** The window should look like the one shown below.



- 3. From the Plug-in Device Browser, Select **Proteus VX** from the E-MU folder.
- 4. Click and drag the Proteus VX VST icon over the Clip/Device Drop Area as shown above. Wait a few seconds.
- 5. The Proteus VX editor window appears. (See the image on the following page.)

	Name
	🕮 AutoPan
	Choirus2
•	CleanComp
രി	V 🗁 E-MU
ă	E-DelayCompensator
e	E-Wire
Ø	EmuPowerFX
	ProteusVX

Load the Proteus X Composer Bank

6. Open **Proteus X Composer** from the **Proteus VX File menu**. The bank is installed here by default: "Program Files\Creative Professional\E-MU Sound Central\Proteus X Composer." This is a huge bank and loading takes a few seconds.

Step 6: Load Bank	Preset Inc/Dec	MIDI Channel In	c/Dec
Protect Ver Multisetup Options Help File solt View Multisetup Options Help ← → 1 1 2 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2			
Protects X Composer v2.0.1.exb) Presets Dynamic Grand ME Orchestral Grotestral Excity Excit	P0000 All Category Dynamic Grand	DEVENE DO EXAMINATION	OTS AVAYS AVARE AVARE AVARPACT Image: Construction of the c
## Kri 1 ## And Voice ## Stolen 20Ksaws ## Stolen 7Away ## Stolen 7Away ## Stolen 7Away ## Stolen 7Away ## Stolen 7Away ## Supar Freak ## Supar Freak ## Supar Freak	22 CONFORMED		
-## Acoustic 1 -## Realify/Bone -## Realifute ## Alima Pizz -## Weiky/Taik -## Finiscore ## L.V.'s Worm -## Bgo O Tricks -## Melosoul EP -## Melosoul EP	Tore Preserve Glaps FREE O O O O O O O O O O O O O O O O O O	The second secon	AUX COTFORM 1 Ba1 2 Ba1 4 Ba1 5
Sampler System Library For Help, press F1	Low EQ Low Mid High Mid	High EQ Disk 0 Ch. 1 Prote	

ТΙР . . .

You can shorten loading times by creating smaller Proteus banks which contain only the sounds you need.

- 7. Make sure Proteus VX is set to MIDI Channel 1 as shown above.
- 8. Using the preset increment/decrement keys, select a preset such as "Dynamic Grand," shown above.
- 9. Play your MIDI or USB keyboard. You should be hearing music. If not, check to make sure your keyboard is set to MIDI channel 1. You should also see activity on the MIDI From indicator All Channey as you play. If not, check your connections. If you see MIDI activity but still don't hear anything, make sure the Arm Track Record button is On (red).

Proteus VX

Instrument

- 10. Using the preset increment/decrement keys, check out a few more sounds. You have 1023 to choose from!
- 11. Pick a sound you like, then close the Proteus VX editor by clicking the close box.
 This only hides the editor screen and doesn't close Proteus VSTi.



- 12. Notice that you now have a new MIDI Track and that the **Proteus VX Instrument** now appears at the bottom of the window.
- 13. Select File Browser 1, 💿 open the Clips folder and open the Rhythmic or Keys folder.

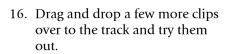
TIP . . .

Highlight the preset number and use the Up/ Down keys on your computer keyboard to quickly browse through the presets.

Getting Started with Ableton Live Lite 8

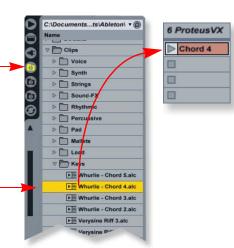
3 - Running the Proteus VX Sound Module from Ableton Live

- 14. From the Keys folder, **drag and drop** one of the clips over to the **Clip area** on your Proteus VX MIDI track as shown.
- 15. Press the Master Scene Launch button for the Verse scene A.



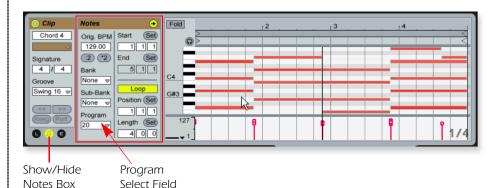
Change the Preset from Live

17. When you have a clip you like, click the **Clip Overview Hot Spot** or simply double-click on the clip. (**Hint:** Shift+Tab toggles the view.)





The Clip View appears at the bottom of the application window.



- 18. Click on the Show/Hide Notes Box to reveal the notes box as shown above.
- Click on the Program Select field in the Notes box.
 A black border appears around the Program field showing that it has the "focus". Select any preset number from the pop-up list.
- 20. Use the **Up/Down Arrow** keys on your computer keyboard to increment or decrement through the presets. You can even do this while the clips are playing to try out sounds in a hurry.
- 21. Assign different Program Change numbers to different clips and notice that they are remembered by Live.

NOTE

Proteus VX sounds are called Presets or Programs. Ableton Live Programs are offset by +1 from Proteus VX.

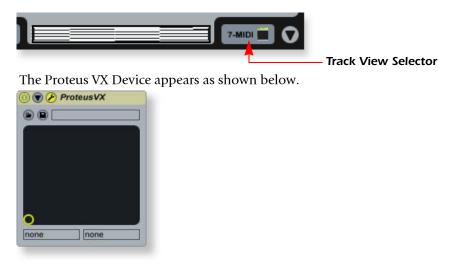
ΤΙΡ . . .

Set the Sub-Bank number to access presets above 128. Sub-Bank 2, Program 1 = Preset 128 on Proteus VX.

4 - Record a MIDI Track in Live

Proteus VX is a multi-timbral instrument with the ability to play 16 different sounds at once. Let's get ready to make a multitrack MIDI recording.

1. Click the Track View Selector at the bottom of the window or simply doubleclick on the clip to show the Proteus VX Device. (Shift+Tab toggles the view.)

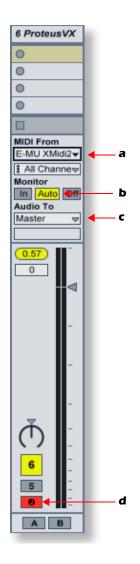


2. Click on the Tool icon 🖉 to bring up the Proteus VX editor.

	16	Channel View
teusVX/7-MIDI		
e Edit View Multisetup Options H	telp	
a ← → 🏠 🤔 🖬 % 🕒	B 🗠 🗠 🐜 🚥 💷 🗉 🖓 💷 🖉 🚥 🖓	UPGRADE NOV
Proteus VX VSTi	SINGLE 1-16	OUTS AUX FX 1 AUX FX 2 AUX FX 2
(Proteus X Composer v2.0.1.e.	cb) MIDI PRESET VOLUME F	ALIX EFFECT
Presets		Reverb
Presets	🛆 🛛 02 Zimpler 💦 👘 🖓 🔤 🖓 👘	
	a3 <none></none>	Dry Dry Wet bypas
Yo My Dynos	04 <none></none>	Decay 0.27
) 05 <none> + C 127 C</none>	
	06 <none> - 127 - 3</none>	Diffusion 0.48
		Room Size 0.48
	Select Presets	
	09 <none></none>	Early Reflections 70.00 %
		Pre-Delay 5.00 msec
MIII Kit 1		HF Damping 0.33
MIII And Voice	12 <none></none>	
MetalScience	13 <none></none>	LF Damping 0.00
	14 <none></none>	Stareo Mode
	> 15 <none> ▼ 27</none>	Figure Eight
Movie Brass	> 16 <none></none>	
	MIDI CONTROLLERS	
	CTRLA ON CTRLB ON CTRLC ON CTRLD ON OWN	
IIII Clavinetti	TUNE (cents) TRANSPOSE TEMPO (BPM)
MIII Acoustic 1	Tone Presence Shape Image	
BreathyTBone		AUX OUTPUTS
IIII Real Flute		1 Bus 1
Allin a Pizz	Attack Dcy/Rel Movement Rate	
IIII Walky Talk		2 Bus 1 🔹
IIII Filmscore	CTRLI CTRLJ CTRLJ CTRLK CTRLL CTRLL 29 0 1 34 0	a Bus 1 🔻
IIII L.V.'s Worm		
HIII Bag O Tricks	Dynamic1 Dynamic2 Aux 1 Aux 2 - Not Set -	
Melosoul EP	CTRLM STAL CTRLN STAL CTRLO STAL CTRLP STALLOOP OV	ERRIDE LIMITER +0.
III Breather		L R
		ot Set - 👻 💿 🌑 50
Sampler System		ON RELEASE (N)
lelp, press F1	32 MB CPU Disk 0	Ch. 2 Proteus VX VSTi

- 3. Click the 1-16 tab to view the preset selections 16 MIDI channels. When multitrack recording it's often easier to give each track its own MIDI channel and preset.
- 4. Click the little triangle to the right of the preset selection field for Channel 1. Click Here The preset selection dialog box appears. To My Dynos
- 5. Hit the Spacebar to start Live, then browse though the presets. Click OK when you find one you want to use for recording.
- 6. Close the Proteus VX editor by clicking the close box.

Getting Started with Ableton Live Lite 8 4 - Record a MIDI Track in Live



- 7. Open the Preferences via the Options menu (PC) or Live menu (OS X) and choose the **Record/Warp/Launch** tab. Set the Count-in to any value other than "None." Live doesn't start recording until the count-in period has elapsed and gives you time to get ready after pressing "Record." **Close** the Window.
- 8. **Delete all the Clips** in your MIDI track. (Select a clip and hit backspace to delete it.)
 - If your MIDI interface isn't already connected, you'll have to quit Ableton Live Lite 8, connect the MIDI interface, then restart Ableton Live Lite 8 before continuing.
- 9. Set up the MIDI track as shown at left.
 - a. Select your MIDI Interface in the "MIDI From" field.
 - **b.** Monitor should be set to Auto.
 - c. Set the Audio To = Master.
 - d. Turn Arm Session Record On (red).
- 10. **Play the keyboard.** You should hear Proteus VX playing the last sound you selected on channel 1. Go ahead and change the sound if you wish. (Double-click the top of the Track, then click the **Wrench** icon on the Device Title Bar. Make sure you're changing the sound on channel 1.)

Get Ready to Record

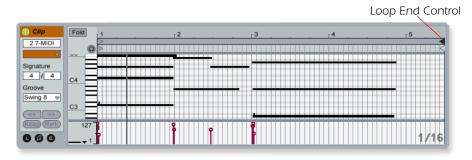
- 11. Start up the **Verse** using the **Scene Launch button** and practice playing along with it.
- 12. **Optional:** You can set the **Global Quantization** value to correct the timing of your playing. Set it to anything other than "None".



- 13. Click one of the round **MIDI Clip Record** buttons to begin recording. Recording will begin after the Count-In period you specified.
- 14. Click the Spacebar to stop recording.

Adjust the Loop Length

- 15. Start up the Verse using the Scene Launch button and take a listen. You'll notice that your part doesn't line up with the others after the first play through. This is because your loop length is not a multiple of four bars. Let's fix that.
- 16. Click on the clip you just recorded and your clip will appear at the bottom of the window. It might look something like the one below.



17. Click and drag the Loop End triangle so that it lines up with the number 5. Now the loop is exactly 4 bars long and will sync with the rest of the song. You can also adjust your part by dragging the bars in the note editor.

					Drag Here
Clip 2 7-MIDI	Fold 1	<u>_</u> 2	. E ₁	<u>_</u>	
Signature	C4				
Groove Swing 8	C3				
	127	ê y			

- 18. Start up the Verse again using the Scene Launch button. Now it should play in perfect sync.
- 19. For fun, try changing the Program Number. Remember how?Click the Show/Hide Notes icon, give Program the focus, then change the Program number while the scene is playing using the up/down keys.
- 20. When you're happy with the recording, disarm recording for the track by clicking the arm button, o turning it grey.

Add Another MIDI Track

- 22. On the new MIDI Track, the **MIDI To** box reads "No Output." Instead, select **6-ProteusVX**. This links the new MIDI track to the MIDI track containing Proteus VX.
- 23. Now click on the box that reads "**Track In**" to see the list of MIDI channels. Select **2-ProteusVX** as shown at right.
- 24. Turn Arm Session Record On. 🗾 for the MIDI track.

Choose a Sound for MIDI Channel 2

- 25. Double-click on the 6 ProteusVX heading to show the Proteus VX VSTi. Next, click on the wrench icon 🖉 again to open Proteus VX.
- 26. **Select a Preset** on **Channel 2**. Click the little triangle to the right of the preset selection field for **Channel 2**.



- Note: There are several ways to select presets. See the Proteus VX Operation manual pdf for details.
- 27. You should now be hearing the preset you selected on channel 2 when you play your MIDI keyboard.

Get Ready to Record on Channel 2

28. Start up the **Verse** using the **Scene Launch button** and practice playing along with it.

MIDI From All Ins All Channev Monitor Step 22: In Auto Off Select MIDI To 6-ProteusVX 6-ProteusVX 😽 2-ProteusVX v Step 23: List of Channels 7 S

2-ProteusVX -

1-ProteusVX 2-ProteusVX

3-ProteusVX

4-ProteusVX

5-ProteusVX

6-ProteusVX 7-ProteusVX

8-ProteusVX

9-ProteusVX 10-ProteusVX

11-ProteusVX 12-ProteusVX 13-ProteusVX

14-ProteusVX

15-ProteusVX 16-ProteusVX

Track In

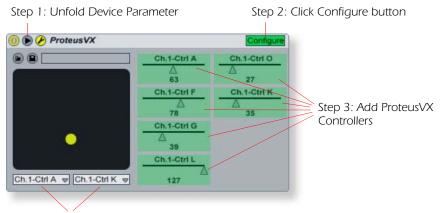
- 29. Click one of the round **MIDI Clip Record** buttons to begin recording. Recording will begin after the Count-In period you specified.
- 30. Click the Spacebar to stop recording.

Saving your Work

31. Save your work by selecting **Save Live Set As...** from the File menu. The next time you load the set, the Proteus VX bank will automatically load as well.

Other Cool Tips

- To control Proteus VX with the knobs on your MIDI keyboard: Go to the MIDI Preferences on Proteus VX (Options, Preferences, Controllers tab) and make sure the MIDI Continuous Controller numbers match the ones your keyboard is sending. You can change the controller numbers on either your MIDI keyboard or Proteus VX, just as long as they both match.
- To control Proteus VX with the Assignable X/Y Controls in Live:
 - 1. Click the **Unfold Device Parameter** triangle **()** to reveal the **Configure** button. **Configure**
- 2. Click the **Configure** button and move any of the MIDI Controller knobs on ProteusVX to select them. The controllers you selected are now added to Live's X-Y Controller panel. .



Step 4: Assign any two of the selected controls to the X-Y Controller

3. Select any two of the MIDI Controllers you selected to assign them to the X and Y axis of Live. Move the green ball to control two parameters at once.

On Your Own

Now you've had a little taste of what Proteus VX and Ableton Live Lite 8 can do. But don't stop now! Read the Proteus VX Operation Manual pdf *(located in the ProteusVX Help menu)* to learn all about this exceptional instrument.

Ableton Live Lite 8 includes several excellent hands-on tutorials to help you learn all the features of this ground-breaking musical application. It's easy and fun, so check it out!

ТΙР . . .

For more information about MIDI controllers please refer to the Proteus VX pdf manual.

Technical Support

If you need technical support on any of the bundled Production Tools software, please contact the respective manufacturer.

Cubase LE5 http://www.steinberg.net/en/support.html
Sonar LE 8.5 <u>http://www.cakewalk.com/Support/</u>
<u>Default.aspx</u>
Live Lite 8 http://www.ableton.com/support
Peak Express http://www.bias-inc.com/support
Melodyne essential <u>http://www.celemony.com</u>
Amplitube X-Gear <u>http://www.ikmultimedia.com</u>
SFX Machine LT http://www.sfxmachine.com/support.html
D-Pole, PPG Wave, Attack <u>http://www.waldorfmusic.de/en/support-</u>
<u>contact.html</u>

Internet References

MIDI & Digital Recording

Software Updates, Tips & Tutorials <u>http://www.emu.com/support</u>	
Setting up a PC for Digital Audio <u>http://www.musicxp.net</u>	
MIDI Basics	. Search for "MIDI Basics" (many sites)
MIDI & Audio Recording	. <u>http://www.midiworld.com</u>
MIDI & Audio Recording	. <u>http://www.synthzone.com</u>
Mixcraft	. <u>http://www.acoustica.com/mixcraft/</u>
	index.htm

Forums

Unofficial E-MU Forum	. http://www.productionforums.com/emu
Sound-On-Sound Forum	. <u>http://www.soundonsound.com</u>
Computer Music Forum	. http://www.musicradar.com/computermusic
Home Recording Forum	. <u>http://homerecording.com/bbs</u>
Studio Central Forum	. <u>http://www.tweakheadz.com</u>
KVR Forum	. <u>http://www.kvraudio.com/forum</u>
Sound Card Benchmarking	. <u>http://audio.rightmark.org</u>
Driver Heaven Forum	. <u>http://www.driverheaven.net</u>

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