UniQuest for EWI 4000s

Quick Start

Thank you and congratulations on your choice of the Akai Professional EWI 4000s Electric Wind Instrument. While the EWI 4000s is equipped with a sophisticated on-board Analog Modeling Synthesizer, UniQuest expands on this feature by giving you remote access to all sound parameters from a connected Mac or PC computer. In addition to complete real-time editor functions, UniQuest for EWI 4000s also serves as a back-up and organizational tool to save and catalog your EWI 4000s sound creations. The editor will also display any notes you play on your EWI 4000s in real-time.

1.0 Getting Ready: Instructions

UniQuest uses MIDI System Exclusive messages to communicate with your EWI 4000s. This means you'll need to make certain connections before you install and run the software for the first time. Here we will explain the steps you need to take. Although the illustrations are PC Windows XP based, these instructions also apply to Mac OS X users.

System Requirements

Minimum requirements are a Mac G4 with 256 MB of Ram, or a Pentium III with 512 MB of RAM. As everybody knows, faster is better.

You will also need a MIDI interface. fortunately, these can be purchased for under \$50 these days.

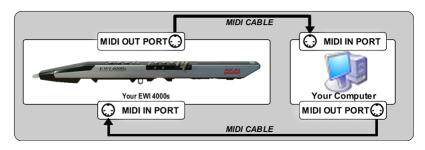


Check Your Computer's MIDI Ports

Your computer requires one free MIDI In port and one free MIDI Out port to run UniQuest. Please ensure that your MIDI interface is installed correctly and that all filtering options (especially ones that affect System Exclusive) are disabled.



Make sure your hardware instrument is properly connected to your computer. Twoway (duplex) MIDI communication is essential to the UniQuest software's installation & operation. You will need to connect two MIDI cables between your computer's MIDI interface and your instrument as follows:





Ok, this one is pretty obvious. Still, better safe than sorry...



Here's where you install the UniQuest software from the CD that shipped with your EWI 4000s. You can also download the software free of charge from the Akai Professional Website (www.akaipro.com). The download will be archived as a zip file.



When you run UniQuest for EWI 4000s for the first time, you will be prompted to choose the MIDI In port that the software will use:

UniQuest	$\overline{\mathbf{X}}$
There are no MIDI Select YES to choo If you do not choo the program will no	se the ports now. se any ports,
Yes	No

Click on the **Yes** button to open the MIDI In Ports dialog - Here you will select the actual MIDI port that connects to your EWI 4000s.

Getting Ready: Instructions

You may have noticed that some of UniQuest for EWI 4000s' dialogs, menu bars and icons have the words 'Midi Quest' in them. This is to be expected, since UniQuest for EWI 4000s is built on technology developed by Sound Quest Music Software (www.squest.com). This instrument will also available as an included instrument module for users of Sound Quest's Midi Quest & Midi Quest XL products in the near future.

You should now see the following choices in the Midi In Ports Dialog: In this illustration, there are 2 MIDI In ports to choose from - Your system will

USB Audio Device	1	CP 1	-	13	CP 13	
USB Audio Device [2]	2	CP 2	•	14	CP 14	
	3	CP 3	•	15	CP 15	•
	4	CP 4	•	16	CP 16	
	5	CP 5	•	17	CP 17	
	6	CP 6	-	18	CP 18	-
SysX Buffer Setup	7	CP 7	-	19	CP 19	-
# of Buffers: 15 Buffer Size: 7000	8	CP 8	•	20	CP 20	-
If you never plan on receiving SysX data, set '# of Buffers' to 0. This will free additional memory for	9	CP 9	•	21	CP 21	•
the program to use.	10	CP 10	•	22	CP 22	-
	11	CP 11	-	23	CP 23	-
Ok Cancel Help	12	CP 12	•	24	CP 24	

show whatever MIDI ports it has available. For best results when you are using other MIDI processing programs in conjunction with UniQuest, your MIDI interface should have *multi-client* drivers. If you do not see any ports here, your MIDI interface drivers are not correctly installed and will need correction before you can proceed. When you have selected the MIDI In you want, please click '**Ok**' to proceed.



When you run UniQuest for the first time, you will also be prompted to choose the MIDI Out port that the software will use:



Click on the **Yes** button to open the MIDI Out Ports dialog - Here you will select the actual MIDI port that connects to your EWI 4000s.

USB Audio Device	1	CP 1	▼ 13	CP 13	
	2	CP 2	▼ 14	CP 14	
	3	CP 3	▼ 15	CP 15	
	4	CP 4	▼ 16	CP 16	
	5	CP 5	▼ 17	CP 17	
	6	CP 6	▼ 18	CP 18	-
	7	CP 7	▼ 19	CP 19	-
	8	CP 8	▼ 20	CP 20	
	9	CP 9	▼ 21	CP 21	
	10	CP 10	▼ 22	CP 22	-
	11	CP 11	• 23	CP 23	-
Ok Cancel	Help 12	CP 12	▼ 24	CP 24	

You should now see your connected MIDI interface ports as choices in this Dialog (your system will have different MIDI ports available): Please select the port you have connected to your EWI 4000s' MIDI in and click **Ok**.



UniQuest will now open. On Windows XP you will see an Application window that contains the Studio Window:



On Mac OS X you will see the Application menu and the Studio Window:

🥤 🧯 UniQuest for Akai E	WI4000s	File	Studio	MIDI	Options	Utilities	Windows	Help
😝 🖯 🖨 🛛 Default - Stud	io							
	SETTIN	65 4						
Akai Pro EWI 4000s		1						
LUIT 1999								
Default Set		0						
		1						

The studio window contains the EWI 4000s instrument module: This is the main interface used to transfer sound data between your EWI 4000s and the software.

The Instrument Module (Windows XP)



The Instrument Module (Mac OS X)



We'll now explore the main controls of the instrument module.

- **The Instrument Graphic:** More than just a pretty picture, this graphic of the EWI 4000s can be single-clicked to give the instrument module focus, and can be double-clicked to upload (or get) the currently selected data from the instrument.
- The Set List: This control allows you to choose the EWI 4000s data component you wish to work with, such as *Preset*, *Preset Bank* or a more complex grouping of components called a *Set*. On installation, the Set List will have '*Default Set*' selected as shown above.
- The Action Bar: This bar contains three mini-buttons labeled GET, NEW and OPEN. When you click on one of the mini-buttons, it will act on the currently selected Set List component. For example, to 'get' the preset bank from your EWI 4000s, select 'Preset Bank' in the Set List and click on the GET mini-button within the Action Bar.
- The Configuration Mini-Button: This mini-button sets the MIDI Port, SysEx ID, MIDI Channel and other properties of the currently selected component in the Set List. When '*Default Set*' is selected in the Set List, this button sets the default properties of all the components.

We'll get more into the instrument module's settings later on in this document. For now, it's important that you configure the module to use the correct MIDI in and out ports (if you have selected more than one in step 5) and to configure the module to communicate on the same MIDI and SysEx channels as your EWI 4000s - If this is not done correctly, UniQuest will not work.

When UniQuest is run for the first time, it searches for your EWI 4000s and sets the correct MIDI Ports and SysX channel in the instrument module automatically. This process is called **AutoSense**, and it should not take more than a few seconds if you have selected only one or two MIDI In and Out ports (back in Step 5).

If you have selected a single MIDI in and MIDI out port, you may not see the Auto-Sense dialog because it opens and closes too fast to you to notice. On the other hand if you have selected 8 ins and 8 outs (from a multi-port MIDI interface for example), AutoSense could take longer than 5 seconds to complete.

Getting Ready: Instructions

The AutoSense dialog is shown here:

AutoSense Instru	ument Settings	$\overline{\mathbf{X}}$
Searching for		Cancel
Instrument	Akai Pro EWI 4000s	Cancel All
MIDI IN Port	USB Audio Device [2]	
MIDI OUT Port	USB Audio Device	
SysX Channel	2	

If the AutoSense procedure cannot detect your instrument's settings, you will need to make sure your Midi Interface drivers are installed correctly and that all cables are connected as per the diagram in Step 2. Make sure the output of your computer is connected to the input of the EWI 4000s (and vice-versa). Also ensure that no SysEx filtering is enabled on your MIDI interface.

Although UniQuest will now have detected the correct MIDI Ports and SysX Channel used by your EWI 4000s, you still need to set the MIDI channel manually:

To open the default settings dialog for the instrument module, make sure that the '**Default Set**' is selected in the Set List and then click on the Configuration minibutton.



Settings		
EWI 4000s -		
<u>N</u> ame:		
Comments:		
		v
Port <u>I</u> n	1. USB Audio Device	[2]
Port O <u>u</u> t	1. USB Audio Device	•
Comm C <u>h</u> Patch #		Patch Bay Control
<u>M</u> IDI Ch	1	Port 1. USB Audio Device MIDI Ch 1
	ast changed Date: 19 19:25:25 2005	Cntrl # 0
	Ok C	ancel Help

This will open the default Settings Dialog for the EWI 4000s instrument module :

The Port and SysX (Comm) Channel settings will already have been set in this dialog by the AutoSense procedure. This means that the Port In and Port Out settings controls will be set to the same MIDI ports that AutoSense discovered your EWI 4000s connected to. Likewise, the Comm Ch will be set to the SysEx communication channel that your EWI 4000s used to respond to the AutoSense message.

By default, the EWI 4000s is configured to use Comm Ch 0 and MIDI Ch 1. UniQuest is also configured to these values by default, so everything will be set correctly unless you plan to set your EWI 4000s to a different MIDI channel.



The SysEx ID (Comm Ch) used by your EWI 4000s is related to its currently selected MIDI channel as follows: A MIDI channel setting of 1 equals a SysEx ID setting of 0, a MIDI channel setting of 2 equals a SysEx ID setting of 1, and a MIDI channel setting of 3 equals a SysEx ID setting of 2, and so on. You must set the Comm Ch to be 1 less than the MIDI Channel in UniQuest's settings for the software to work properly!

Test UniQuest & Back Up Your EWI 4000s

Now you will find out if UniQuest is correctly configured by uploading (or *getting*) the Internal Preset Bank from your EWI 4000s. This test is also an essential operation since you'll need to protect these sounds from accidents while you learn to use your new editor software.

1. Select 'Preset Bank' with the Set List control...

🙋 UniQuest - Default - Studio	
File Studio MIDI Options Utilities Online Window Help	
🖻 🖶 🔚 🖨 🔜 💽 🐼	200 🚛 🍋 🙆 💙
🖃 Default - Studio	
EWI 4000s	
Preset Bank	
Default Set	
Custom Set	
Preset Edit Buffer	
Preset (Pch #1)	
✓ Preset Bank	
	NUM

2. Click on the 'Get' mini-button...



3. The Preset Bank uploads from your EWI 4000s in about 12 seconds.

1	MIDI I/O	X
	Info	
	Instrument:	Akai EWI 4000s
	Data:	Preset Bank
	File Name:	New
	Comm Ch:	0
	Port In:	USB Audio Device [2]
	Port Out:	USB Audio Device
	Status	
	Transmit:	13 Loops: 32
	Receive:	6262 Current:
	Cancel	Ok Help

4. The Uploaded Data Opens As A Bank Editor Window (Windows XP)

1 SINGING SAW	31 DETUNE PULSE	61 DETUNE SAW
2 JUDD4000	32 WARM DETUNE	62 FUNCKY WAH
3 MIMI	33 DUAL PWM	63 RECORDER
4 WOOD WIND	34 BRIGHT SYNTH	64 SOPRANO
5 MIX LEAD	35 MEWI	65 SOLID BRASS
6 BRIGHT WAH	36 WOOD WIND2	66 PIPE
7 DOUBLE REED	37 EARTHY	67 SQ11
8 PULSE BRASS	38 REED	68 SQ63
9 MELLOW	39 EDGY PULSE	69 SQ95
10 TUBA	40 SQ WAH	70 SQ115
11 DETUNE SAW	41 FAT PWM	71 FAT SAW
12 FUNCKY WAH	42 SMOOTH SYNTH	72 BRIGHT SAW
13 RECORDER	43 WIDE PWM	73 GROSS SAW
14 SOPRANO	44 SAXY	74 SAW-4
15 SOLID BRASS	45 COMMON FANFARE	75 SAW+5
16 PIPE	46 CANTABILE SAW	76 CLEAR SAW
17 SQ11	47 SYNTH SOLO	77 FAT BOTTOM
18 SQ63	48 THIN SAW	78 CRISPY
19 SQ95	49 DUAL PULSE	79 SILKY
20 SQ115	50 NEW WOOD	80 SOFT PULSE
21 FAT SAW	51 SINGING SAW	81 DETUNE PULSE
22 BRIGHT SAW	52 JUDD4000	82 WARM DETUNE
23 GROSS SAW	53 MIMI	83 DUAL PWM
24 SAW-4	54 WOOD WIND	84 BRIGHT SYNTH
25 SAW+5	55 MIX LEAD	85 MEWI
26 CLEAR SAW	56 BRIGHT WAH	86 WOOD WIND2
27 FAT BOTTOM	57 DOUBLE REED	87 EARTHY
28 CRISPY	58 PULSE BRASS	88 REED
29 SILKY	59 MELLOW	89 EDGY PULSE
30 SOFT PULSE	60 TUBA	90 SQ WAH

Congratulations! You have just successfully installed UniQuest EWI 4000s and configured the software to work with your EWI 4000s.



Please save the set you have just uploaded by selecting File : Save EWI 4000s Preset Bank from the UniQuest application menu. UniQuest will save this data as a file on your computer's hard drive, and you are now free to explore the sounds you have just transferred to UniQuest by stepping through the bank entries and auditioning each one.

1.1 Exploring the Bank Editor Window

You can now explore each of the sounds you have uploaded by clicking on an entry in the bank window. When you do this, the sound data will be downloaded through MIDI to the EWI 4000s temporary editing buffer, allowing you to audition the current selection. This will not overwrite any of the EWI 4000s presets, so it is completely safe to do.

More interestingly, you can also split the Bank Editor window to see the current preset loaded into the Virtual Instrument Interface editor. This is achieved by pressing the Bank Editor Window's **Editor-Split** button, which has the icons of 3 faders and two knobs on it:

🔡 New - EWI 4000s Preset Bank	
1 SINGING Comment	31
2 JUDD40	32
3 MIMI	33

1.1.1 The Split Bank Window

Once the Bank Editor has been split, you can edit the Bank in the left side, and edit the current preset in the right side:

New - EWI 4000s Preset Bank	
(1 SINGING SAW	
2 JUDD4000	
3 MIMI	
4 WOOD WIND	
5 MIX LEAD	
6 BRIGHT WAH	
7 DOUBLE REED	
8 PULSE BRASS	
9 MELLOW	
10 TUBA	
11 DETUNE SAW	
11 DETUNE SAW 12 FUNCKY WAH	
12 PONCRY WAR	
14 SOPRANO	
15 SOLID BRASS	
16 PIPE	
17 SQ11	
18 SQ63	
19 SQ95	
20 SQ115	
21 FAT SAW	
22 BRIGHT SAW	
23 GROSS SAW	
24 SAW-4	
25 SAW+5	
26 CLEAR SAW	
27 FAT BOTTOM	
28 CRISPY	
29 SILKY	
30 SOFT PULSE	
1 - 30 31 - 60 61 - 90 91 - 100	

If you have not yet selected a preset, nothing will be shown on the right side of the split.

Getting Ready: Instructions

New - EWI 4000s Preset Bank Solutions Saw 1 Solutions Saw Solutions Saw 2 JUDCA0000 JUDCA0000 3 Minan Image: Solutions Saw Solutions Saw 2 JUDCA0000 Image: Solutions Saw Solutions Saw Solutions Saw 3 Minan Image: Solutions Saw Solutions Saw Solutions Saw Solutions Saw 1 Divolutions Saw Image: Solutions Saw Solutions Saw Solutions Saw Solutions Saw Solutions Saw 1 Divolutions Saw Image: Solutions Saw Image: Solut	C 1		1
I SINGING SAW 1 SINGING SAW 2 JUDDAGOD 3 Mimil 4 WOOD WIND 5 BRIGHT WAH 7 DOUBLE REED 8 MILLOW 1 DETINE SAW 12 FUNCKY WAH 13 OUBLE REED 8 MILLOW 10 TUBA 11 DETINE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 15 SOUDBRASS 19 SOAS 19 SOAS 20 SOTTS 21 DETINE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 19 SOAS 19 SOAS 20 SOTTS 21 SUNCKY WAH 22 SUNCKY WAH 23 RECORDER 14 SOPRANO 19 SOAS 20 SOTTS 20 SOTTS 21 SUNCKY WAH 22 SOTTS 23 SOTTS 23 SOTTS 24 SAW4 23 SOTTS 25 SAW4 23 SOTTS 23 SOTTS 24 SAW4 <t< th=""><th>🔡 New - EWI 4000s Preset Bank</th><th>_</th><th>. 🗆 🗙</th></t<>	🔡 New - EWI 4000s Preset Bank	_	. 🗆 🗙
1 SHIGHIG SAW 3 MIMIN 3 MIMIN 4 WOOD WHID 5 MIX LEAD 6 MIX LEAD 7 DOUBLE REED 8 BRICHT WAH 7 DOUBLE REED 9 MILLOW 10 DEFIN 11 DEFIN 12 DEFIN 13 SHEICHWAH 14 SOPRANO 15 MILLOW 16 DEFIN 17 SOLID 18 SOPRANO 18 SOPRANO 18 SOPRANO 18 SOPRANO 18 SOPRANO 19 SOPRANO 19 SOPRANO 21 FAT SAW 22 SOPRANO 23 SOPRANO 24 FAT SAW 22 BPIN DEFIN			
8 MIX LEAD 9 BRIGHT WAH 7 DOUBLE REED 9 MELLOW 10 TUBA 00C2 0 01 DEPTH 10 TUBA 00C2 0 01 DEPTH 11 DETURE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 15 SORDER 16 SORE 18 SORE 19 SORE 19 SORE 20 OC FITER SORE BERATH 21 FAT SAW 22 SORTARSS 19 SORGE 20 OC FITER SORDER OR CONCERTER 22 BERATH 23 SORTARS 24 SORTARS 25 SORTARS 26 OR CONCERTER 28 SORTARS 29 PERTH OR CONCERTER SORTARS			
8 MIX LEAD 9 BRIGHT WAH 7 DOUBLE REED 9 MELLOW 10 TUBA 00C2 0 01 DEPTH 10 TUBA 00C2 0 01 DEPTH 11 DETURE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 15 SORDER 16 SORE 18 SORE 19 SORE 19 SORE 20 OC FITER SORE BERATH 21 FAT SAW 22 SORTARSS 19 SORGE 20 OC FITER SORDER OR CONCERTER 22 BERATH 23 SORTARS 24 SORTARS 25 SORTARS 26 OR CONCERTER 28 SORTARS 29 PERTH OR CONCERTER SORTARS			~
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7 DOUBLE REED PRUE BEAN DEPTH DEPTH DEPTH OUTRE DAMP LEVEL 9 PULSE BRASS BEAN TIME DEPTH DEPTH DEPTH OUTRE DAMP LEVEL 9 MELLOW ID ID <td></td> <td></td> <td>U</td>			U
8 PULSE BRASS 9 MELLOW 10 TUBA 11 BEUDWE BAW 12 FULSE WAHA 13 RECORDER 14 SOUTE BRASS 15 SOUTE BRASS 16 PIPE 17 SQ111 18 SOUS BRASS 19 SOUS BRASS 20 SOUTE BRASS 20 SOUTE BRASS 21 FAT SAW 22 SOUTE SAW 23 SOUTE SAW 24 FAT SAW 23 SOUTE SAW 23 SOUTE SAW 24 FAT SAW 23 SOUTE SAW 24 FAT SAW 23 SOUTE SAW 23 SOUTE SAW 24 SAWA4 25 SAWA4 25 SAWA4 23 SUCK 24 SAWA4 25 SAWA4 25 SAWA4 25 SAWA4 26 <td></td> <td></td> <td>LEVEL</td>			LEVEL
3 BIELCOV TUBBA 11 DETUNE SAW COMODER 12 FUNCK WAH FUNCE 13 RECONDER FUNC 14 SOUD BRASS 15 SOUD BRASS 16 PIPE 17 SQ111 18 SOGD SEASS 20 SOUT SEASS 22 SOUT SEASS 23 SOUT SEASS 24 FAT SAW 22 SOUT SEASS 23 SOUT SEASS 24 FAT SAW 23 SOUT SEASS 24 FAT SAW 25 SOUT SEASS 24 FAT SAW 23 SOUT SEASS 24 FAT SAW 25 SOUT SEASAW 24 FAT SAW 25 SOUT SEASAW 26 CLEAR SAW 27 FAT SAW 28 SOUT SEAW 29 SOUT SEAW 29 SOUT SEAW 20 SOUT SEAW 25 S			
3 BIELLOW DUBA 11 DETUNE SAW CONCER BEAN			
11 DETUNE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 15 SOGU BRASS 16 PIPE 17 SOGU BRASS 18 SOGU BRASS 19 SOGU BRASS 19 SOGU BRASS 19 SOGU BRASS 19 SOGU BRASS 21 FAT SAW 22 SOGU BRASS 23 SOGU BRASS 24 SAW4 25 SOGU SAW 22 BRIGHTSAW 23 SOGU SAW 24 SAW4 25 SAW4 25 SAW4 25 SAW4 25 SAW4 26 SOGU SAW 27 FAT SAW 28 SOGU SAW 29 SOGU SAW 20 SOGU SAW 21 SOGU SAW 22 SOGU SAW 23 SOGU SAW 24 SOGU SAW 25			0
11 DETUNE SAW		OSC2	
12 FUNCKY WAH 13 RECORDER 14 SOPRANO 15 SOUDBASS 16 PIPE 17 SOUDBASS 18 SOGS 19 SOGD STASS 19 SOUDSASS 21 FAT SAW 22 BRIGHT SAW 23 GROSS SAW 23 SOUTS 23 SOUTS 24 SAW4 25 SOUTS 25 SOUTS 28 SOUTS 29 SOUTS 29 SOUTS 20 SOTTOM 28 SOUTS 29 SOUTS 29 SOUTS 20 SOTTOM 20 S	11 DETUNE SAW		NSE : EARLY
14 SOUD BRASS 15 SOUD BRASS 16 PIPE 17 SOUL BRASS 18 SOUD STAND 18 SOUD STAND 19 SOUD STAND 21 FAT SAW 22 BRIGHT SAW 23 GROSS SAW 23 SOUT STOM 24 STUM 25 CLEAR SAW 27 FAT BOTOM 28 SULKY 30 SOFT PULSE 11 Into 11 Into 12 BEAT 13 SOUT STOM 24 SAW4 25 SOUT STOM 26 CLEAR SAW 27 FAT BOTOM 28 SULKY 30 SOFT PULSE 14 SEET OFF 15 DETTOM </td <td>12 FUNCKY WAH</td> <td></td> <td>C</td>	12 FUNCKY WAH		C
14 SOUD BRASS 15 SOUD BRASS 16 PIPE 17 SOUL BRASS 18 SOUD STAND 18 SOUD STAND 19 SOUD STAND 21 FAT SAW 22 BRIGHT SAW 23 GROSS SAW 23 SOUT STOM 24 STUM 25 CLEAR SAW 27 FAT BOTOM 28 SULKY 30 SOFT PULSE 11 Into 11 Into 12 BEAT 13 SOUT STOM 24 SAW4 25 SOUT STOM 26 CLEAR SAW 27 FAT BOTOM 28 SULKY 30 SOFT PULSE 14 SEET OFF 15 DETTOM </td <td>13 RECORDER</td> <td></td> <td></td>	13 RECORDER		
19 SOULD BRAXS Definition	14 SOPRANO		9
19 5063 19 5063 19 5065 19 5065 20 50115 21 FAT SAW 22 BRIGHT SAW 23 50055 22 BRIGHT SAW 23 50055 23 50057 24 FAT SAW 25 50057 28 BRIGHT SAW 29 S0057 20 S007 21 BP 10000 CHORE 20 S00000 21 BP 11 MODE 22 BP 11 MODE 12 BP 11 MODE 12 BP 11 MODE 12 BP 12 BP 13 MODE 14 SUMAT 15 BP 16 CHOR 17 MODE 18 MODE <td< td=""><td>15 SOLID BRASS</td><td>FINE BEAT DAMP</td><td></td></td<>	15 SOLID BRASS	FINE BEAT DAMP	
19 5063 19 5063 19 5065 19 5065 20 50115 21 FAT SAW 22 BRIGHT SAW 23 50055 22 BRIGHT SAW 23 50055 23 50057 24 FAT SAW 23 50055 23 50057 24 BRIGHT SAW 22 BRIGHT SAW 23 SAW4 25 SAW4 25 SAW4 26 CLEAR SAW 27 FAT BOTOM 28 SAW4 29 SILVY 30 SOFT PULSE NOISE CEN NOISE FILTER MODE PRECO 10 The BOTOM 20 SILVY 30 SOFT PULSE 11 NICE 12 PRECO 13 NICE 14 NICE 15 NICE	16 PIPE		
19 9	17 SQ11		9
13 30400 20 30400 30400 30400 30400 23 SQ115 30400 30400 30400 30400 30400 30400 22 SQ115 30400 20 30400 <	18 SQ63		
21 FAT SAW 22 BRIGHT SAW 23 GROSS SAW 23 GROSS SAW 24 SAW4 25 SAW45 25 SAW45 28 CLEAR SAW 29 SILKY 30 SOFT PULSE NOISE CEN NOISE CEN MODE 10 EFFH 10 EFFH 11 EFF 12 SILKY 30 SOFT PULSE	19 SQ95	OSC FLITER BREATH LFO SWEEP FORMANT AMP OF CHORUS	
21 FAT SAW 22 BRIGHT SAW 23 GROSS SAW 23 GROSS SAW 24 SAW4 25 SAW45 25 SAW45 28 CLEAR SAW 29 SILKY 30 SOFT PULSE NOISE CEN NOISE CEN MODE 10 EFFH 10 EFFH 11 EFF 12 SILKY 30 SOFT PULSE	20 SQ115	OFF THE Q FACTOR MOD FREQ BREATH TIME CEVEL ON FEEDBACK LFO FREQ B	YPASS LEV
22 CLEAR SAW 27 FAT BOTTOM 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE DEPTH DEPTH </td <td>(24 EAT SAW</td> <td></td> <td></td>	(24 EAT SAW		
22 CLEAR SAW 27 FAT BOTTOM 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE DEPTH DEPTH </td <td></td> <td></td> <td>9</td>			9
22 CLEAR SAW 27 FAT BOTTOM 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE DEPATH		2 BP KEY KEY DEPTH THRESH DEPTH WWIND SELECT DELAY 1 MOD 1	LEVEL 1
22 CLEAR SAW 27 FAT BOTTOM 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE DEPATH			m
22 CLEAR SAW 27 FAT BOTTOM 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE DEPTH DEPTH </td <td></td> <td></td> <td>S</td>			S
27 FAT BOTTOM 28 CR18PY 29 SILLY 30 SOFT PULSE NOISE GEN PREQ 10 FREQ 10 FREQ 11 INC 12 SILLY 130 SOFT PULSE 14 INC 15 INC 12 INC 13 INC 14 INC 15 INC 16 INC 17 INC 18 INC 19 INC 10 INC 11 INC 12 INC 12 INC 14 INC 15 INC 16 INC 17 INC			-
23 CRISPY 23 CRISPY EVEN COMPARING AND			
29 SILKY 30 SOFT PULSE BREATH BREA			
30 SOFT PULSE		IME OFFICE OFFICE OFFICE OFFICE OFFICE	PITCH
			C
		BREATH 2 BP FOLLOW CURVE DEPTH THRESH DEPTH OCT BUTTON	
			AMP
1.30 31-00 31-100			0
	1 - 30 31 - 60 61 - 90 91 - 100		_

Selecting a preset by clicking on it loads the Editor into the right side of the split:

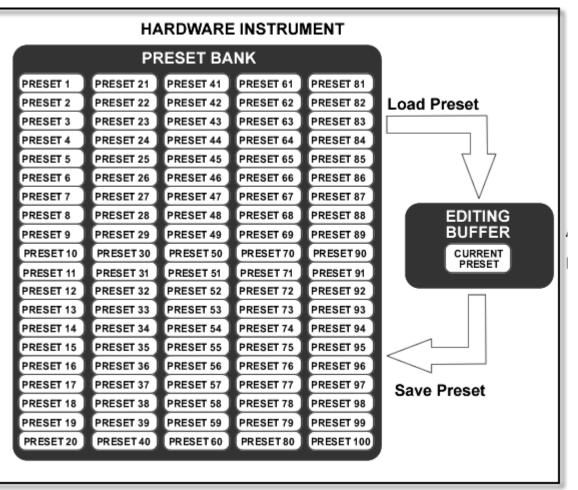


You are free to experiment as much as you like - Just remember to save the changed bank file under a new name. Otherwise, you will overwrite the backup you just made!

In the next section we will explain how UniQuest works in greater detail, and will also explore the Preset Editor's Virtual Instrument Interface.

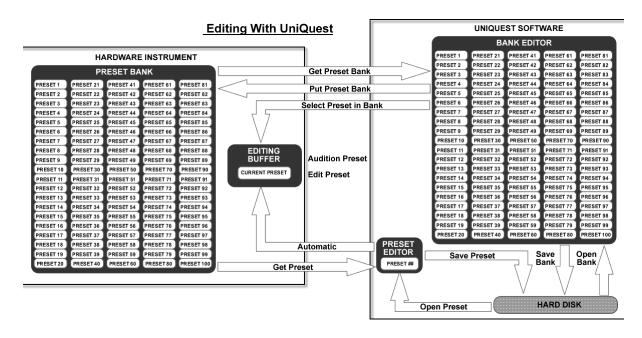
2.0 A Quick Tour of UniQuest For EWI 4000s

Getting the most from UniQuest requires a few adjustments in how you relate to your hardware instrument. In the past you have no doubt worked entirely "in-place" within the confines of your instrument's internal memory, which means permanently overwriting an existing sound before being allowed to listen to another.



In typical hardware instruments, the presets are organized into banks which are stored in 'permanent' memory which is either battery powered (in older instruments) or Flash RAM (in modern instruments). Simply put, this kind of memory is rewritable but does not get erased if you unplug the instrument. Typical hardware instruments also have an 'editing buffer' where the currently selected preset is loaded for editing and auditioning. This memory is temporary - It depends on the instrument remaining powered up. If you turn off the power, the editing buffer will be erased.

When you load a preset, you are actually copying it to the editing buffer. Similarly, When you save a preset, you are saving the contents of the editing buffer back to the preset bank - The destination location is up to you. This mechanism allows you to move presets around in the bank by shuffling them through the editing buffer, but it has a number of drawbacks. Firstly, there is only a limited amount of space in the bank so moving presets always means overwriting others. Secondly, it's a tedious and difficult procedure to move blocks of presets around this way, and most importantly, there is a large possibility for confusion and mistakes, which could cause you to lose the sound data you are trying to manage and protect! UniQuest eliminates this situation, as we will now see.



With UniQuest, you upload your EWI4000s preset bank to your computer, where it can be safely backed up to your hard drive. Then you are free to edit, audition, step between sounds, reorganize your banks and create searchable sound libraries with complete security and ease. You are never forced to erase useful sounds to make room for new ones with UniQuest.

Once you have 'Gotten' the Preset Bank from your EWI 4000s, you can save it to your computer's hard drive and that's it - Your entire preset bank is now backed up.

Each time you click on a preset inside the currently open bank editor window, the preset is loaded for editing on your computer while a copy of the preset's data is sent to the EWI4000s' editing buffer so you can hear the sound change as you edit the preset's parameters.

Unlike a hardware instrument, when you step to the next preset, the changes you made in the editor are stored in the bank window - They are not lost. This lets you step through your bank editing presets as you go. You can also swap entries by dragand-drop operations and can copy and paste presets between different bank editor windows and **no permanent memory location on your EWI 4000s will be changed**.

The only time UniQuest will change the Preset Bank that resides in your EWI 4000s' permanent memory, is when you 'Put' the current bank you are editing back into the EWI4000s. Then, the EWI 4000s' internal preset bank will become a copy of the bank editor window.

2.1 Working with Single Presets

If you only want to edit a single preset, UniQuest for EWI4000s has two components designed for this task: **Preset** and **Preset Edit Buffer**:

Default - Studio	
Akai Pro EWI 4000s	
Preset	Default Set
	Custom Set
	Preset Edit Buffer
	✓ Preset (Pch #1) [↓] S Preset Bank

When either of these components are selected within the Instrument Module's Set-List, UniQuest will *Get*, *New*, *Open* or *Put* a single Preset depending on which mini-button you press.

In the case of the **Preset** component, the choice of preset number within the EWI 4000s internal bank is set by pressing the configuration mini-button. The default is (Pch# 1), which is the first preset in the internal preset bank.

In the case of the **Preset Edit Buffer** component, the preset data that is currently being auditioned by the EWI 4000s in the Edit Buffer is what UniQuest will get or put. This component lets you browse through your EWI 4000s' internal bank with the program up and down keys on the instrument and upload the current one for single preset editing whenever you like. The revised sound can then be saved on your computer's hard drive and can also be saved to the EWI 4000s bank memory by performing the Program Save routine on the instrument.

Now it's time to explore the Preset Editor's Graphical User Interface and explain the EWI 4000s synthesizer parameters found there.

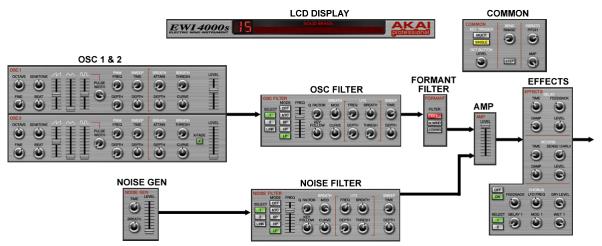
2.2 The Preset Editor Window

Whenever you upload, open or create a new EWI 4000s preset with UniQuest, the Preset Editor Window will open. Likewise, whenever you are working with an EWI 4000s preset bank and split the window, you will be accessing the Preset Editor through the right side of the Bank Window. Every processing section of the EWI 4000s synthesizer and effects architecture is represented here, with real-time controls that let you tweak, test and audition the final results as if your EWI4000s was equipped with a separate front panel desktop console.

All edits made from this window are instantly downloaded to the EWI 4000s' editing buffer (temporary memory).

2.2.1 Preset Editor Overview

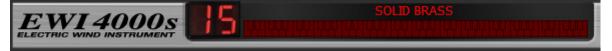
There are 9 sections that make up the EWI 4000s Preset Editor :



In the illustration above, the sections have been separated from their normal layout and are shown according to their location in the EWI 4000s synthesizer architecture. The black arrows indicate the flow of audio signals within the EWI 4000s.

We will now explore each of these sections in greater detail.

2.2.2 LCD Display



The LCD display section shows the currently loaded preset's name and number within the bank editor.

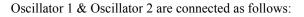
Clicking your mouse on the preset name area will open a dialog allowing you to rename the preset, while the preset number is display only. If you have opened the editor from the Preset component, the preset number will be whatever is currently configured in the instrument module (default #1). If you have opened the editor from the Preset Editing Buffer component there will be not be a preset number displayed (--).

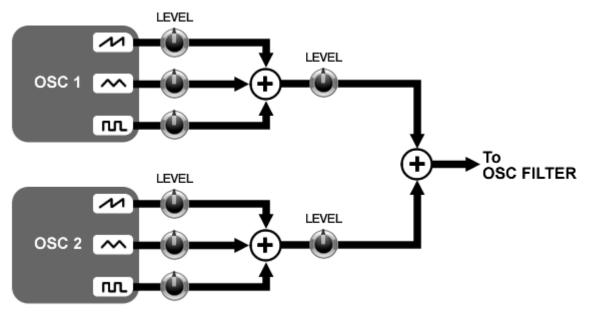
Underneath the preset name is a 7 octave virtual keyboard display. This keyboard will light up to indicate MIDI notes that are received from the EWI 4000s, so it makes a great tool for working on your fingerings and practicing scales.

OSC 1 PWM FREQ BREATH THRESH TIME BREATH ATTAIN LEVEL пп OCTAVE SEMITONE PULSE DSC 2 PWM FREQ BREATH THRESH TIME BREATH ATTAIN nn LEVEL OCTAVE SEMITONE PULSE X-FADE WIDTH х

2.2.3 OSC 1 & 2 SECTION

The EWI4000s has two analog modeled oscillators, which are editable independent of each other. Each oscillator outputs Sawtooth, Triangle and Pulse waves and includes a waveform mixer that lets you set how much of each wave is heard.





As you can see there are many different textures that you can generate simply by adjusting the various level controls. What is not shown in this diagram is the influence of the Breath Threshold and Curve controls on each oscillator's output signal level - As will be explained, these parameters allow you control each output's level with the air pressure of your breath.

The following parameters are common to each oscillator:

Oscillator Tuning Parameters

OCTAVE

• Range is -2 to +2 octaves.

SEMITONE

• Range is -12 to +12 semitones.

FINE

• Range is -50 to +50 cents. 100 cents = 1 semitone, so this parameter lets you detune the oscillator by as much as a quarter-tone either way. Great for thickening and doubling the sound.

BEAT

• Range is 0 to 100%. This is a musical fine detune control. When the two oscillators are detuned by a fixed amount with the FINE control, you will discover that there is a subtle 'beating' effect between them. This beating will be faster for higher pitched notes and slower for lower pitched notes, and this may not be desirable. The BEAT control allows you to detune the oscillators so that the beating is constant for all notes played.

Oscillator Waveform Parameters

SAWTOOTH LEVEL (///)

• Range is 0 to 100 %. Adjusts the oscillator's sawtooth wave output level.

TRIANGLE LEVEL (

• Range is 0 to 100 %. Adjusts the oscillator's triangle wave output level.

PULSE LEVEL (

• Range is 0 to 100 %. Adjusts the oscillator's pulse wave output level.

PULSE WIDTH

• Range is 0 to 100 %. The oscillator's pulse wave width is adjustable, where 0% results in a narrow pulse wave, 50% results in a square wave and 100% results in a wide pulse wave.

PWM FREQUENCY

• Range is 0 to 100%. PWM stands for Pulse Width Modulation. Each oscillator has a dedicated LFO to modulate or change its pulse width. This control sets the speed (or frequency) of the PWM LFO.

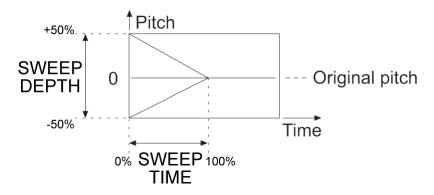
PWM DEPTH

• Range is 0 to 100%. This control sets the amount (or depth) of the PWM applied by the LFO.

Oscillator Pitch & Volume Envelope Parameters

SWEEP TIME

• Range is 0 to 100%. Unlike a keyboard controlled synthesizer, the EWI 4000s does not use a standard envelope generator (ADSR) to control the Oscillator Pitch. Instead, your breath pressure can act as a real-time trigger of a *Sweep* whose time to complete is set by this control:

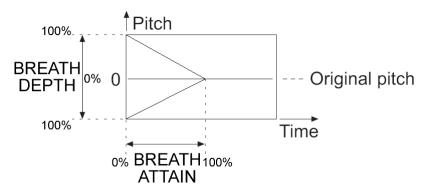


SWEEP DEPTH

• Range is -50% to +50%. Unlike a keyboard controlled synthesizer, the EWI 4000s does not use a standard envelope generator (ADSR) to control the Oscillator Pitch. Instead, your breath pressure can act as a real-time trigger of a *Sweep* whose pitch depth is set by this control. As shown above, negative values cause the sweep to begin at a lower pitch than original, while positive values cause the sweep to begin at a higher pitch than original.

BREATH ATTAIN

• Range is 0 to 100%. As well as triggering the sweep, your breath pressure can act as a real-time controller of the sweep parameters. This parameter modulates the sweep time as follows:



BREATH DEPTH

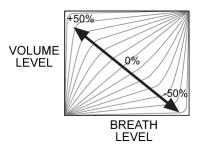
• Range is 0 to 100%. As shown above, this parameter modulates the amount of pitch modulation according to the breath strength: At 100% the Breath Depth is the full amount set by the Sweep Depth control.

BREATH THRESH

• Range is 0 to 100%. This is the threshold level above which the Oscillator will begin sounding.

BREATH CURVE

• Range is -50% to +50%. This parameter sets the mapping of breath pressure to output volume for this oscillator. 0% means a linear 1:1 mapping as follows:



Oscillator Master Volume Parameters

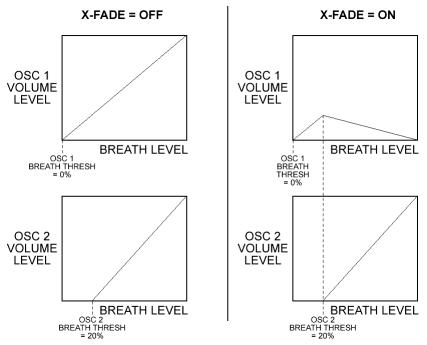
LEVEL

• Range is 0% to 100%. This parameter sets the master volume of the Oscillator it belongs to.

Oscillator X-FADE Parameter

X-FADE

• Range is OFF or ON. This parameter is only effective when the BREATH THRESHOLD parameter of OSC2 is set to a non-zero value. When enabled, this parameter causes OSC 1 to be decreased in volume for breath pressure levels above the OSC 2 BREATH THRESHOLD:



In the example shown here, both oscillators are set to use linear breath curves, with OSC 1 and OSC 2 set to breath thresholds of 0% and 20% respectively.

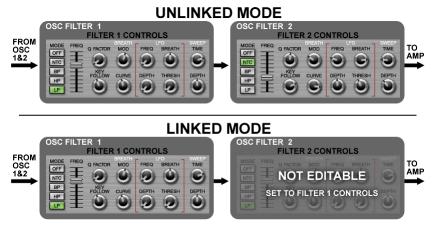
2.2.4 OSC FILTER SECTION



SELECT

• Choices are 1, 2 or LINK. When 1 is selected, the block of controls in this section govern the settings of OSC FILTER 1. When 2 is selected, these controls govern the settings of OSC FILTER 2. LINK mode is now explained.

The Oscillator Filter section consists of 2 multi-mode filters that are connected in serial with each other. Each filter can be set individually or can be linked to realize a double-strength filter whose parameters are set by filter 1's controls:



The following parameters are common to each filter:

Main Filter Parameters

MODE

This control changes the filter's basic type:

- OFF: Filter is off, incoming signals are passed unchanged.
- NTC: Notch Removes a band of signal content around the filter cutoff frequency. This signal is therefore 'notched'.
- **BP**: Band Pass Removes signal content except for a band around the filter cutoff frequncy. This band is allowed to pass unchanged.
- **HP**: High Pass Removes signal content below the filter cutoff frequency. High frequencies are allowed to pass unchanged.
- LP: Low Pass Removes signal content above the filter cutoff frequency. Low frequencies are allowed to pass unchanged.

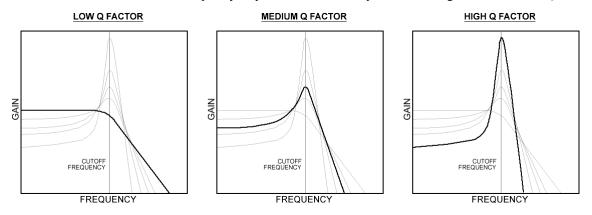
FREQ

• Range is 65.5 Hz to 10.5 kHz. This control sets the cutoff frequency of the OSC FILTER.

Q-FACTOR

• Range is 0.5 to 12.7. This control sets the Quality Factor of the OSC FILTER, and is analogous to the RESONANCE control found in typical analog synthesizer filter sections.

The Q Factor of an audio filter is defined as the cutoff frequency divided by the bandwidth (the 3dB change in level around the cutoff frequency). While this sounds complicated and rather mathematical, it is easier to understand by comparing how the frequency response curve of a lowpass filter changes with different Q factors:

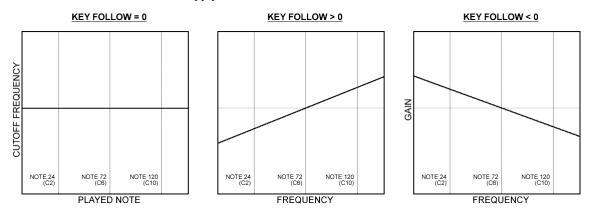


As can be seen, higher Q Factors mean the filter passes more signal around the cutoff frequency while stopping more signal content outside this bandwidth. This also makes the filter more resonant at higher Q factors, which is why the control can also be thought of as a 'Resonance' parameter.

KEY FOLLOW

• Range is -12 to 24. When this control is set to 0, the filter's cutoff frequency remains the same for any note played. For all other values of KEY FOLLOW, the filter's cutoff frequency will be changed based on the current note.

Note number 72 (which is MIDI Note C 6, and the starting note shown in the 5th octave of the LCD keyboard display) is the reference point for the filter cutoff frequency: No matter what value KEY FOLLOW is set to, the filter's cutoff frequency will apply for this note:



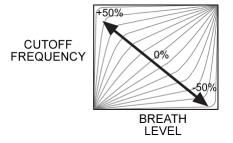
Positive KEY FOLLOW settings will cause the cutoff frequency of the filter to be raised for notes higher than C6 and lowered for notes lower than C6. Negative settings have the opposite effect. When KEY FOLLOW is +/- 12, the tracking slope is 1:1 or -1:1 respectively, meaning that the cutoff frequency will be shifted by the same frequency amount as the the note (relative to C6). This produces a very musical effect.

BREATH MOD

• Range is 0 to 100%. This control allows you to change the filter cutoff frequency with your breath pressure. Higher values apply more modulation to the cutoff frequency.

BREATH CURVE

• Range is -50% to +50%. This parameter sets the mapping of breath pressure to cutoff frequency for this filter. 0% means a linear 1:1 mapping as follows:



Filter LFO Parameters

Not only does each filter have a dedicated LFO that can be used to modulate its cutoff frequency, this LFO can be controlled in real-time by your breath pressure for a variety of exciting performance effects.

LFO FREQUENCY

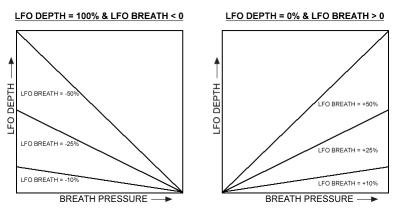
• Range is 0 to 100%. This control changes the LFO rate.

LFO DEPTH

• Range is 0 to 100%. This control changes the amount of LFO modulation that is applied to the cutoff frequency. Higher values result in more modulation.

LFO BREATH

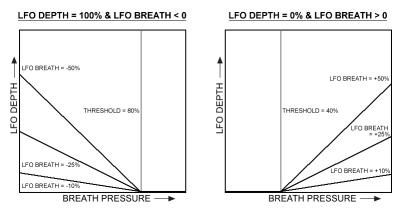
• Range is -50% to 50%. This control modulates the LFO DEPTH, allowing your breath pressure to control how much LFO modulation is applied to the filter's cutoff frequency. Positive values cause greater breath pressures to result in greater amounts of LFO modulation, while negative amounts of this control cause greater breath pressures to result in lesser amounts of LFO modulation.



Note that since negative values of LFO BREATH reduce the amount of LFO Modulation, LFO DEPTH must be set to 100% to achieve the curve shown in the illustration above.

LFO THRESHOLD

• Range is 0 to 100%. This control sets a point in the breath pressure range that acts as a trigger for LFO Modulation to begin or end:

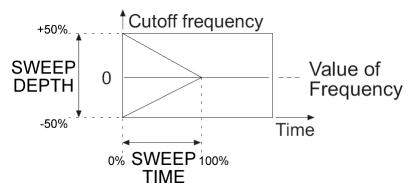


When used in conjunction with the LFO DEPTH and LFO BREATH parameters, LFO THRESHOLD can be used to create a variety of sophisticated filter modulations.

Filter Envelope Parameters

SWEEP TIME

• Range is 0 to 100%. Unlike a keyboard controlled synthesizer, the EWI 4000s does not use a standard envelope generator (ADSR) to control the Filter Cutoff Frequency. Instead, your breath pressure can act as a real-time trigger of a *Sweep* whose time to complete is set by this control:



SWEEP DEPTH

• Range is -50% to +50%. Unlike a keyboard controlled synthesizer, the EWI 4000s does not use a standard envelope generator (ADSR) to control the Filter Cutoff Frequency. Instead, your breath pressure can act as a real-time trigger of a *Sweep* whose cutoff frequency value is set by this control. As shown above, negative values cause the sweep to begin at a lower frequency than original, while positive values cause the sweep to begin at a higher frequency than original.

2.2.5 FORMANT FILTER SECTION



FILTER

• The Formant Filter applies the formant characteristics of two physical classes of instrument: String or Wood Wind.

2.2.6 NOISE GENERATOR SECTION



The Noise Generator allows for the creation of various white noise effects such as wind, breath and surf sounds. When mixed with the musical tones of the oscillators, the noise signal can be used to model realistic and synthesized sound attack transients.

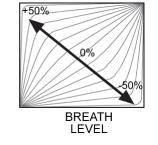
TIME

• Range is 0% to 100%. This control affects the decay time of the noise - Larger values result in longer decay times.

BREATH

• Range is -50% to +50%. This control sets the mapping of breath pressure to the output volume of the noise signal. 0% means a linear 1:1 mapping as follows:

VOLUME



LEVEL

• Range is 0% to 100%. Sets the master volume of the generated noise signal.

2.2.7 NOISE FILTER SECTION



The NOISE FILTER's operation is identical to the OSC FILTER, with the exception that it filters the output of the NOISE GEN instead of the OSC SECTION.

This section consists of 2 multi-mode filters that are connected in serial with each other. Each filter can be set individually or can be linked to realize a double-strength filter whose parameters are set by filter 1's controls. For detailed descriptions of each control in this section, please refer to the corresponding entry in the OSC FIL-TER section.

2.2.8 AMP SECTION

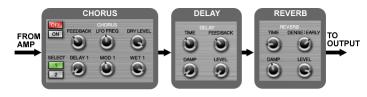
LEVEL

• Range is 0% to 100%. Sets the master volume of the combined OSC and NOISE signals.

2.2.9 EFFECTS SECTION



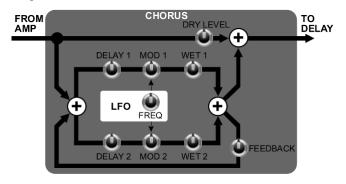
The EFFECTS SECTION consists of high quality chorus, delay, and reverb effects connected in serial:



Each digital effect will now be examined in the order of their connection.

Chorus Effect Parameters

The chorus effect combines two short delay lines with LFO modulation to apply a swirling doubling effect to the input signal. When enabled, the Chorus parameters process the signal as follows:



Each of the two delay lines outputs a delayed pitch modulated copy of the input signal. When these output signals are fed back into the chorus input and recombined with the original signal the result is a wider, doubled sound.

OFF / ON

• These buttons disable and enable the chorus effect. When the chorus effect is off, the incoming signal is passed through unaffected.

FEEDBACK

• Range is -50% to +50%. This control regulates the amount of chorus output signal that is fed back to the input of the delay lines. Negative values apply increasing levels of **phase inverted** signal to the input.

LFO FREQ

• Range is 0 Hz to 12.7 Hz. Sets the rate of the LFO that is used by both delay lines to apply vibrato (pitch modulation) to their respective signals.

DRY LEVEL

• Range is 0 % to 100%. Controls the volume of the unchorused signal.

SELECT 1/2

• These buttons select a delay line for editing. Unlike the OSC FILTER SELECT and NOISE FILTER SELECT buttons, the CHORUS SELECT buttons do not change any modes other than the display.

DELAY 1

• Range is 0 to 127 milliseconds. This control sets the time length of the first delay line.

MOD 1

Range is -50 % to +50%. Controls the pitch modulation (vibrato) depth applied to the first delay line. Negative values apply increasing amounts of phase inverted LFO modulation. Try setting MOD 1 to a positive value while setting MOD 2 to a negative value for maximum effect.

WET 1

• Range is -50 % to +50%. Controls the output volume of the first delay line. Negative values apply increasing levels of **phase inverted** signal to the output.

DELAY 2

• Range is 0 to 127 milliseconds. This control sets the time length of the second delay line.

MOD 2

Range is -50 % to +50%. Controls the pitch modulation (vibrato) depth applied to the first delay line. Negative values apply increasing amounts of phase inverted LFO modulation. Try setting MOD 1 to a positive value while setting MOD 2 to a negative value for maximum effect.

WET 2

• Range is -50 % to +50%. Controls the output volume of the second delay line. Negative values apply increasing levels of phase inverted signal to the output.

Delay Effect Parameters

The delay effect consists of a long delay line coupled with a lowpass filter for tonal control over the delayed signal. Useful for simulating echoes and other repeating effects.

TIME

• Range is 0 to 1.27 seconds. This control sets the time length of the delay line.

FEEDBACK

• Range is 0% to 100%. This control regulates the amount of Delay output signal that is fed back to the input of the delay line.

DAMP

• Range is 0 % to 100%. Controls the cutoff frequency of the lowpass filter applied to the delay line output. This control allows the delays to have less brightness than the original signal, which is useful when simulating natural echo effects.

LEVEL

• Range is 0 % to 100%. Controls the output volume of the delay effect.

Reverb Effect Parameters

The reverb effect consists of a very long multi-tap delay line coupled with a lowpass filter for tonal control over the reverberated signal. Useful for simulating acoustic spaces such as rooms, halls, caverns and arenas.

TIME

• Range is 1.0 to 5.0 seconds. This control sets the time length of the reverb's multi-tap delay line.

DENSE:EARLY

• Range is 0% to 100%. This control regulates the density of the early reflections produced by the reverb algorithm. From 0-50% this control increases the number of early reflections in the reverb, while from 51-100% it increases the reverb density.

DAMP

• Range is -10 to +10. Controls the cutoff frequency of the lowpass filter applied to the reverb output. This control allows the reverberations to have less brightness than the original signal, which is useful when simulating various environments.

LEVEL

• Range is 0 % to 100%. Controls the output volume of the reverb effect.

2.2.10 COMMON SECTION

COMMON KEY TRIGGER MULTI SINGLE	BEND RANGE	VIBRATO PITCH
OCT BUTTON LEVEL	STEP	AMP

The common section contains a number of miscellaneous parameters that control the EWI 4000s' general behavior when the preset is loaded.

KEY TRIGGER

- SINGLE: The envelope is only controlled by breath articulation.
- **MULTI**: The envelope (sweep) of each new note is re-triggered, even while your breath is continuous through the transition.

You can get a good idea on how this parameter works by setting a long sweep time in the filter section, apply sustained breath to the EWI 4000s and play a sequence of notes to see the difference with SINGLE selected and then repeat with MULTI selected.

OCT BUTTON LEVEL

• Range is 0% to 100%. Controls the level of the second voice that is played when the EWI 4000s' OCT mode is enabled by pressing the OCT button on the instrument.

BEND RANGE

• Range is 0 to 12 semitones. Sets the pitch interval shifted up or down when the EWI 4000s' BEND UP or BEND DOWN keys are touched.

STEP

• Off or On. When enabled, this button causes pitch bends to be semitone stepped when the EWI 4000s' BEND UP or BEND DOWN keys are touched. If STEP is disabled, pitch bends will glide to their destination.

VIBRATO PITCH

• Range is 0% to 100%. Controls the amount of the pitch modulation (Vibrato) that is applied to the sound when the bite sensor in the EWI 4000s mouthpiece is activated.

VIBRATO AMP

• Range is 0% to 100%. Controls the amount of the volume modulation (Tremolo) that is applied to the sound when the bite sensor in the EWI 4000s mouthpiece is activated.

2.3 The Editor Controls in Closer Detail

Each of the Preset editor sections is made up of various controls such as toggle switches, knobs and sliders. These are now explored in greater detail.

Knob



UniQuest's knobs are rotary entry controls that are edited whenever the mouse is clicked and dragged in a circular motion around the knob's center. You can change every knob's entry mode to standard linear drag entry in UniQuest's **Preferences** dialog, under the **Patch Edit** tab. You can also reset any knob to it's default value by pressing **Ctrl-Spacebar** while hovering the mouse over it.

Knobs have real-time edit *pop-up text* and a *direct entry* mode, both of which are covered below.



Slider

UniQuest's sliders are linear entry controls that are edited whenever the mouse is clicked and dragged vertically. You can reset any Slider to it's default value by pressing **Ctrl-Spacebar** while hovering the mouse over it.

Sliders have real-time edit *pop-up text* and a *direct entry* mode, both of which are covered below.

Pop-Up Text for Knobs & Sliders

Whenever you edit a knob or slider, the current value will be shown in a pop-up text string. If the parameter has been edited since its initial load you will also see an asterisk (*) after the text.

Direct Entry Mode for Knobs & Sliders

Direct entry mode is activated for knobs and sliders when you **right-click** or **double-click** on the control in Windows. On the Mac platform, direct entry mode is activated with a **Ctrl-Click** on the desired control.

Direct entry mode is different between the Windows and Mac platforms. Here is the direct entry mode for the OSC FILTER 1's FREQ Slider on Windows XP:

OSC FILTER MODE FREC SELECT OFF		MOD FREQ	FO BREATH	SWEEP TIME SOFF		ON FEEDBACK
LINK HP	65.4 Hz	175 Hz	466 Hz	1.25 kHz	3.32 kHz	8.87 kHz
	69.3 Hz	185 Hz	494 Hz	1.32 kHz	3.52 kHz	9.40 kHz
	73.4 Hz	196 Hz	523 Hz	1.40 kHz	3.73 kHz	9.96 kHz
NOISE GEN	77.8 Hz	208 Hz	554 Hz	1.48 kHz	3.95 kHz	10.5 kHz
TIME	82.4 Hz	220 Hz	587 Hz	1.57 kHz	4.19 kHz	
	87.3 Hz	233 Hz	622 Hz	✓ 1.66 kHz	4.44 kHz	
	92.5 Hz	247 Hz	659 Hz	1.76 kHz	4.70 kHz	
	98.0 Hz	262 Hz	699 Hz	1.87 kHz	4.98 kHz	
BREATH	104 Hz	277 Hz	740 Hz	1.98 kHz	5.27 kHz	
	110 Hz	294 Hz	784 Hz	2.09 kHz	5.59 kHz	
	117 Hz	311 Hz	831 Hz	2.22 kHz	5.92 kHz	
	124 Hz	330 Hz	880 Hz	2.35 kHz	6.27 kHz	
	131 Hz	349 Hz	932 Hz	2.49 kHz	6.65 kHz	
	139 Hz	370 Hz	988 Hz	2.64 kHz	7.04 kHz	
	147 Hz	392 Hz	1.05 kHz	2.80 kHz	7.46 kHz	
	156 Hz	415 Hz	1.11 kHz	2.96 kHz	7.90 kHz	
	165 Hz	440 Hz	1.18 kHz	3.14 kHz	8.37 kHz	

On the Windows platform, direct entry mode allows you to select an exact value for the parameter from a pop-up menu. The previous control selection is shown as checked, and the currently selected option in the list is highlighted. Clicking on any entry in the pop-up menu will replace the previous selection and close the pop-up.

FILT Ð 65 4 Hz Ð 69.3 Hz 73.4 Hz 77.8 Hz 82.4 Hz 87.3 Hz 92.5 Hz 98.0 Hz 104 Hz 110 Hz 117 Hz 124 Hz 131 Hz 139 Hz 147 Hz 156 Hz 165 Hz 175 Hz 185 Hz 100

On the Mac platform, Direct Mode entry operates as follows:

Instead of a multi-column pop-up menu, the direct mode menu is a single scrolling column, and the previous control selection is **not** shown as a checked entry (A consequence of the current OS X architecture). As with the Windows version, the current selection is highlighted and clicking on it will update the control and close the pop-up menu.

Toggle



UniQuest's toggles are buttons that flip states whenever the mouse is clicked on them. You can reset any toggle to it's default value by pressing **Ctrl-Spacebar** while hovering the mouse over it.

Radio Button Group



UniQuest's Radio Button Groups are each a group of buttons that control a single parameter. Whenever the mouse is clicked on a button within the group, the remaining buttons are deselected, much like the channel selector buttons on an old-fashioned car radio.

You can reset any Radio Button Group to it's default value by pressing **Ctrl-Spacebar** while hovering the mouse over it.

Text Control



UniQuest's text controls launch a text entry dialog when the mouse is clicked on them. In the EWI 4000s preset editor, there is only of these controls and its function is to rename the preset.

MIDI Keyboard

UniQuest's MIDI Keyboard control reacts to incoming MIDI notes by displaying them as illuminated keys. In the EWI 4000s preset editor, there is only of these controls, located in the LCD Display area beneath the Preset Name.

2.4 The Preset Bank Windows

Whenever you get, open or create a new Patch Bank in UniQuest, a Bank Window will open.

🔢 New - EWI 4000s Preset Bank			
	Encs		
1 SINGING SAW	31 DETUNE PULSE	61 DETUNE SAW	
2 JUDD4000	32 WARM DETUNE	62 FUNCKY WAH	
3 MIMI	33 DUAL PWM	63 RECORDER	
4 WOOD WIND	34 BRIGHT SYNTH	64 SOPRANO	
5 MIX LEAD	35 MEWI	65 SOLID BRASS	
6 BRIGHT WAH	36 WOOD WIND2	66 PIPE	
7 DOUBLE REED	37 EARTHY	67 SQ11	
8 PULSE BRASS	38 REED	68 SQ63	
9 MELLOW	39 EDGY PULSE	69 SQ95	
10 TUBA	40 SQ WAH	70 SQ115	
11 DETUNE SAW	41 FAT PWM	71 FAT SAW	
12 FUNCKY WAH	42 SMOOTH SYNTH	72 BRIGHT SAW	
13 RECORDER	43 WIDE PWM	73 GROSS SAW	
14 SOPRANO	44 SAXY	74 SAW-4	
15 SOLID BRASS	45 COMMON FANFARE	75 SAW+5	
16 PIPE	46 CANTABILE SAW	76 CLEAR SAW	
17 SQ11	47 SYNTH SOLO	77 FAT BOTTOM	
18 SQ63	48 THIN SAW	78 CRISPY	
19 SQ95	49 DUAL PULSE	79 SILKY	
20 SQ115	50 NEW WOOD	80 SOFT PULSE	
21 FAT SAW	51 SINGING SAW	81 DETUNE PULSE	
22 BRIGHT SAW	52 JUDD4000	82 WARM DETUNE	
23 GROSS SAW	53 MIMI	83 DUAL PWM	
24 SAW-4	54 WOOD WIND	84 BRIGHT SYNTH	
25 SAW+5	55 MIX LEAD	85 MEWI	
26 CLEAR SAW	56 BRIGHT WAH	86 WOOD WIND2	
27 FAT BOTTOM	57 DOUBLE REED	87 EARTHY	
28 CRISPY	58 PULSE BRASS	88 REED	
	59 MELLOW	89 EDGY PULSE	
30 SOFT PULSE	60 TUBA	90 SQ WAH	
29 SILKY 30 SOFT PULSE			
1 - 90 91 - 100			

The entire memory space of an EWI 4000s Preset Bank is represented in this window, and the dynamic tab control ensures you'll never have to scroll around to find the patch you want.

Presets can be dragged and dropped to reorganize the bank, and any selected preset is instantly downloaded to the EWI 4000s' editing buffer (temporary memory) so you can audition it in real-time. To transfer the entire bank to your EWI 4000s' flash memory, simply click on the 🔝 button.

Clicking on the to button will split the Bank Window so that the right-most pane contains the preset editor covered in the previous section of this document. This lets you step between each preset in the bank and edit the current selection in real-time.

🔡 New - EWI 4000s Preset Bank			
		SOLID BRASS	AKAI
1 SINGING SAW 2 JUDD4000 3 MIM 4 WOOD WIND 5 MIX LEAD 6 BRIGHT WAH 7 DOUBLE REED 8 PULSE BRASS		BREATH BREATH THRESH DEPTH DEPTH DEPTH DEPTH	EFFECTS DELAY TME FEEDBACK
9 MELLOW 10 TUBA 11 DETUNE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 14 SOPRANO 15 SOLID BRASS 16 PIPE			REVERB TIME DENSE:EARLY
17 SQ11 18 SQ63 19 SQ95 20 SQ115 21 FAT SAW 22 BRIGHT SAW 23 GROSS SAW 23 GROSS SAW 24 SAW4-6 25 SAW45	SELECT OFF		CHORUS
23 SAVID SAVID 26 CLEAR SAW 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE		PRE DEREATH THE DEREATH THE DEREATH THE DEREATH THE DEREATH DEPTH THE DEREATH DEPTH THE DEREATH DEPTH THE DEREATH THE DEREAT	BEND RANGE DITCH STEPI AMP

32 of 44

2.4.1 Exporting Bank Windows to Text

Although UniQuest for EWI 4000s does not operate as a plug-in for Digital Audio Workstation (DAW) software, it features very powerful preset export functions for use with these DAW programs and for sharing your EWI 4000s presets with others who are not UniQuest users. These functions are accessed from within the Bank Editor Window by performing a **right-click** (Windows) or **Alt-Click** (Mac) over the bank editing area as follows:

🔡 Firmware E - Akai Pro EV	WI 4000s Preset Bank								
				B	right wa				
1 SINGING SAW			_	_					
2 JUDD4000	OSC1		PWM	SWEEP	BREATH	BREATH		EFFECTS	ELAY
3 MIMI	OCTAVE SEMITONE		FREQ	TIME	ATTAIN	THRESH	LEVEL	TIME	FEEDBACK
4 WOOD WIND		PULSE	0				Ŧ		
5 MIX LEAD		WIDTH		9			Ŧ		
6 BRIGHT WAH			-	~	-				-
7 DOUBLE REED	Undo	Ctrl+Z	EPTH	DEPTH	DEPTH	CURVE	T	DAMP	LEVEL
8 PULSE BRASS	Сору	Ctrl+C or Ctrl+Ins					=		
9 MELLOW	Copy SysX As Text	Ctrl+T	9	9		9	_	0	0
10 TUBA					-	Contraction of the local			
11 DETUNE SAW	Paste	Ctrl+V or Shift+Ins	PWM	SWEEP	BREATH	BREATH	LEVEL		VERB
12 FUNCKY WAH	Swap	Ctrl+W	FREQ	TIME	ATTAIN	THRESH		0	DENSE
13 RECORDER	Clear	Ctrl+Del					FADE		
14 SOPRANO			9	0	9			0	0
15 SOLID BRASS	Select All	Ctrl+A	EPTH	DEPTH	DEPTH	CURVE		DAMP	LEVEL
16 PIPE	Restore	Ctrl+R							
17 SQ11	Rename	Ctrl+N					-		9
18 SQ63	Kendilerii	Currie	_	_	-	_			
19 SQ95	Edit			SWEEP	FORMANT	AMP	OFF	CHORUS	
20 SQ115	Randomize		REATH	TIME		LEVEL	ON FEEDBAC	K LFO FREQ	DRY LEVEL
	Organize			9	FILTER		UN D	0	
21 FAT SAW	Audition				OFF			9	
22 BRIGHT SAW				DEPTH	W.WIND				
23 GROSS SAW	Export		HRESH	DEPTH	STRING		SELECT DELAY 1	MOD 1	WET 1
24 SAW-4	Find	Ctrl+F			STRING			((1))	
25 SAW+5		Ctrl+G	0	9			2	9	0
26 CLEAR SAW	Find Again	CUITO						_	
27 FAT BOTTOM	Move To	Ctrl+M	REATH	- LFC		SWEEP	COMMON	BEND	VIBRATO
28 CRISPY			MOD		BREATH	TIME		RANGE	PITCH
29 SILKY	Send Akai Pro EWI 4000s Preset Bank to Instru	ument		6			MULTI	0	
30 SOFT PULSE			9				SINGLE	1	6
	Save Akai Pro EWI 4000s Preset Bank	Ctrl+S				-			
	Save Akai Pro EWI 4000s Preset Bank As	N	URVE	DEPTH	THRESH	DEPTH	OCT BUTTON		AMP
	Print	4		(19)	(4)		0	Introd	
			9					STEP	
1 - 30 31 - 60 61 - 90 91 - 10								1	
1.30 01.00 01.00 01.10									

On selecting 'Save Akai Pro EWI 4000s Preset Bank As...' a Save dialog will be launched. This dialog can save to many useful formats besides native **.Bnk**:

Save as type: MQ Bank (*Bnk) MQ Bank (*Bnk) SMF File (*MD) MIDIX Files (.SYX) Bank Names as Text (*TXT)	? 🗙				As	Save Bank A
Backed up. Bnk GTD_frxer. Bnk GTD_frxer. Bnk GTD_frxer. Bnk GTD_messedup. Bnk GTD_frxer. B	· · · ·	🗈 💣 🛙	(← 🖻	•) EW14000s	Save in: 🚞
Save as type: MQ Bank (*Bnk) MQ Bank (*Bnk) SMF File (*MD) MIDIX File (*MD) MIDIX Files (*STX) Bank Names as Text (*TXT)				GTD_fixer.Bnk GTD_messedup.Bnk Lab.Bnk Sample Bank.Bnk	ank 1.Bnk ank.Bnk reset.Bnk	Backed up. Backup Bar Default Bar
MD Bank (Shik) MB Bank (Shik) MIDIX File ("MID) MIDIX File ("SYX) Bank Names as Text (".TXT)	Save			Bnk	Firmware E	File name:
Cake Names 1.0/2.0 (*.INI) Cake Names 3.0 - v9.0 (*.INS) ASCII Text (*.TXT) Cubase Patch Name (*.TXT)	Cancel		•	"Enk) "MID) s (".SYX) es as Text (".TXT) es 1.0/2.0 (".INI) es 3.0 - v9.0 (".INS) (".TXT)	MQ Bank (SMF File (* MIDIX File: Bank Nam Cake Nam Cake Nam ASCII Text	Save as type:

SMF: Exports a standard MIDI File that can be played with any sequencer to dump the bank back to any connected EWI 4000s.

MIDIX: Exports a standard MIDIX file that can be dumped to any EWI 4000s with any MIDI utility program supporting this format.

Bank Names as Text: Exports either a tab delimited (for import to spreadsheets and databases) or as a multi-line text file (for import to word processing programs).

Cake Names: Exports to Cakewalk name formats for all versions of Cakewalk and Sonar. To import these into your specific version, please consult the owner's manual for this DAW.

Cubase Names: Exports to Cubase name format. To import these into your specific version, please consult the owner's manual for this DAW.

2.5 Automatic Patch Generation Tools

UniQuest also features four very powerful tools for creating new EWI 4000s presets automatically. Simply select 2 or more existing presets in your current bank and click on one of the following buttons:



The **Mix** button creates a new Bank of Presets by randomly picking parameters from 2 or more selected presets. The probability of the parameter coming from each of the selected presets is equal. Each new preset is a random combination of the selected presets.



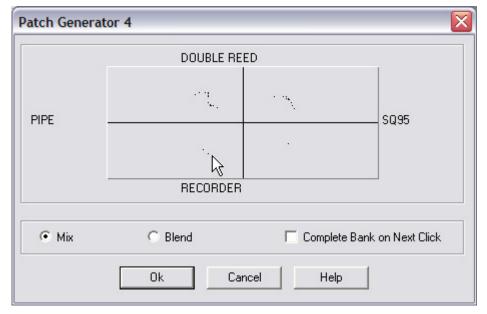
ELERD The **Blend** button works exactly the same as Mix except that it combines larger chunks of data from each preset thus maintaining more of their overall aural characteristics.



INTRPH The **Morph** button creates a new bank of presets from 2 source presets by incrementally transposing the settings of the first preset through to the second preset's settings. This function is ideal if you are trying to find a sound that is somewhere between two given presets.



^{4 Gen} The Gen4 button opens the Patch Generator 4 Dialog, and is active only when you select 4 presets at the same time. The Patch Generator 4 Dialog creates a bank of new presets by mixing the parameters of the four selected presets. The percentage of each preset is determined by the location of each of your mouse clicks, as shown here:



In each case, an entirely new bank of presets is generated from the selected source presets. You can quickly try out these new presets in your music by auditioning them and keeping the ones you like.

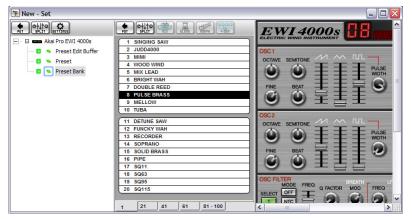
2.6 The Set Window

Components like Presets, Edit Buffers and Preset Banks do not have to be edited in separate windows: UniQuest also lets you upload, open or create a combined data file called a Set.

📧 New - Set		
PUT 0+110 SETTINGS		
Akai Pro EWI 4000s Preset Edit Buffer Preset Preset Preset Bank	1 SINGING SAW 2 JUDD4000 3 MIMI 4 WOOD WIND 5 MIX LEAD 6 BRIGHT WAH 7 DOUBLE REED 8 PULSE BRASS 9 MELLOW 10 TUBA	21 FAT SAW 22 BRIGHT SAW 23 BROSS SAW 24 SAW-4 25 SAW+5 26 CLEAR SAW 27 FAT BOTTOM 28 CRISPY 29 SILKY 30 SOFT PULSE
	11 DETUNE SAW 12 FUNCKY WAH 13 RECORDER 14 SOPRANO 15 SOLID BRASS 16 PIPE 17 SQ11 18 SQ63 19 SQ35 20 SQ115	31 DETIVILE PULSE 32 WARM DETIVILE 33 DUAL PWM 34 BRIGHT SYNTH 35 MEW 36 WOOD WIND2 37 EARTHY 38 REED 39 EOGY PULSE 40 SQ WAH
	1 - 40 41 - 80 81 - 100	

The entire memory space of your EWI 4000s is represented in the **Default Set**, which includes the preset bank, the preset edit buffer and the individual preset 01. Within the set window, you can step between each component in the tree-view and perform edits with a press of the we button.

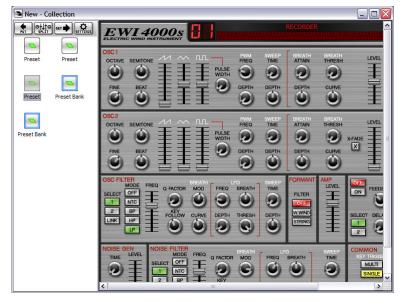
As with the bank window, presets can also be individually edited by pressing the Editor Split button within the patch bank pane of the window:



It is important to note that the Set functionality of UniQuest is not neccessary when working with the EWI 4000s, since this instrument does not have a global settings editor or multiple preset banks. If the EWI 4000s did have such a complicated internal memory structure the set would be essential to proper sound management. As it is, you will likely find that the **Preset Bank** component is all you need to use when backing up and editing sounds on your EWI 4000s.

2.7 The Collection Window

The Collection window is used to create and edit unstructured groupings of whatever EWI 4000s components you like.



Just like the Set and Bank windows, the Collection window will split to show the relevant editor window whenever you select a member of the collection and click on the Collection's Editor Split button (as shown here).

Collections time-stamp components as they are added, which means each collection acts like a tape-drive that allows you to archive sounds at each stage of development and "roll back the clock" whenever you want.

Collections can be also used to store your own structures of data: In the example shown above, there are 3 individual presets and two preset banks.

2.8 The Library Window

Since the Bank window is never larger than the maximum size of the your EWI-4000s' internal memory, UniQuest is equipped with a virtually unlimited type of storage: The Library.

🐚 New - EWI 4000s Preset Edi	it Buffer Library		
	C SETTINGS		
	y Gen		
Displayed: 100 Selected: 0			
Hidden: 0			
Name	Key 1	Key 2	
TUBA	Tuba		T
TUBA	Tuba		
PULSE BRASS	Brass		
SOLID BRASS	Brass		
PULSE BRASS	Brass		
SOLID BRASS	Brass		
WOOD WIND	Wind	Wood	L
WOOD WIND2	Wind	Wood	
WOOD WIND	Wind	Wood	
WOOD WIND2	Wind	Wood	
SINGING SAW			
JUDD4000			
MIMI			
MIX LEAD	Lead		
BRIGHT WAH	Bright	Wah	
DOUBLE REED	Reed		
MELLOW			
DETUNE SAW			
FUNCKY WAH	Wah		
RECORDER	Recorder		
SOPRANO	Soprano		
PIPE	Pipe		
SQ11			
SQ63			
SQ95			
SQ115			
FAT SAW			
<			>).

Each library you create can be as big as you like, but can only store one type of data: This is perfect for creating an EWI 4000s Preset Library. The library window also includes a suite of data maintenance and editing tools to keep your arsenal of sounds completely at the ready: In the example shown here, the entire contents of the EWI 4000s factory preset bank have been added to a Preset Edit Buffer Library with one drag-and-drop operation from the **Default Set** window.

Libraries can become extremely large, so the Library window is capable of performing key-word searches on as many as six criteria of your choice. Pressing the

button launches the Query dialog:

e Duran Criteria		Kaumand Calant
Query Critèria □ Duplicates □ Similar patches with: 100 % in common ✓ Patches with a Name that contains: □ brass □ Patches with Byte	Logic Select	Keyword Select ✓ Äpply key word Citeria Custom word Or ♥ Tuba Or ♥ And ♥ And ♥ And ♥ And ♥ And ♥ And ♥
Options Include names in duplicate search Invert the Query Use settings of first selected patch Append Duplicate name to Comment OK		earch gntire library heck all selected for Dups luery all open Libraries Help

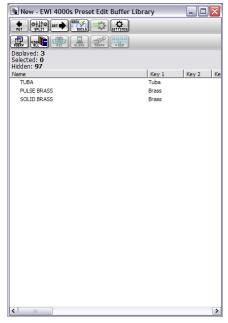
In the example shown above, the Query dialog is set to search the library for presets whose name contains the text 'brass' and who have the keywords 'Tuba' or 'Trumpet' stored with their entry.

The result of this Query is now shown:

🕼 New - EWI 4000s Preset Edit	t Buffer Library	D >
	SETTINGS	
Displayed: 6		
Selected: 0 Hidden: 94		
Name	Key 1	Key 2
TUBA	Tuba	
TUBA	Tuba	
PULSE BRASS	Brass	
SOLID BRASS	Brass	
PULSE BRASS	Brass	
SOLID BRASS	Brass	
<		[

You will see that there seem to be duplicate results in this query. A new Query can

be run on the results, set to remove these duplicates. This involves pressing the **Duplicates**' option in the Query Dialog. Here is the new result:



The 'Duplicates' option actually compares the data bytes of every preset and only shows one copy of each duplicate found - A very useful tool when you are not sure yourself. Please note that the library still contains the original number of presets. Queries simply hide any presets that are not returned. To reset the library to show all antries simply aligh on the **witten**

entries, simply click on the 📧 button.

From a single library window you can search the sounds you need by their name or by the automatic keys UniQuest inserts in each library entry when it is entered. You are also free to audition each patch by clicking on it, as well as mix, blend, morph and Gen4 new banks from the currently selected patches.

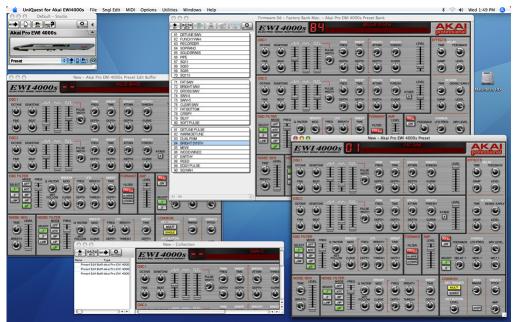
2.9 Transferring Presets Between Windows

It is easy to transfer presets between any open editor window in UniQuest. In most cases where the source is a bank window, you need only drag and drop the entry to a new location such as another bank window, a library window (of the same type), a collection window, or an open preset editor window.

When the source is an open preset editor window, a simple drag and drop operation will not work, however. In this case, you must hold down the **Alt key** while clicking (*Alt-Click*) the mouse on the open preset editor window. You may then release the Alt key and continue to drag and drop the preset data to the destination as before.

2.10 The 'Update Patch on Activate' Option

When UniQuest for EWI 4000s is first installed, the **Update Patch on Activate** option is enabled. This preference controls how the program communicates with your EWI when multiple editor windows are open. Consider the following scenario:



There are four open windows in this illustration, and each one contains a different preset for editing. Since the window containing the FAT SAW preset currently has focus (is selected for editing), you should expect the EWI 4000s editing buffer to contain this preset so that you could hear your sound edits as you work.

With **Update Patch on Activate** enabled, you can switch between each of these four open windows and always be sure that the current window's data is loaded into the EWI 4000s because UniQuest will put the data to the instrument *every time* you switch to a new window.

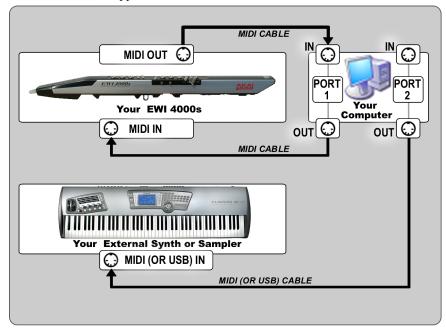
In the situation above, selecting the window that is editing the FAT SAW preset will automatically put the preset into your EWI 4000s' edit buffer. If you were then to select the Collection window, the current selection in this window (SAW+5) would replace FAT SAW in the EWI so that you could hear any changes you made within the collection editor window. Similarly, if you then selected the Bank window for editing, the current selection in this window (BRIGHT SYNTH) would replace SAW+5 in the EWI 4000s' editing buffer.

Since single preset data is quickly transferred between UniQuest and your EWI, the **Update Patch on Activate** preference is best left enabled.

2.11 The 'MIDI Thru' Feature

By default, UniQuest's MIDI Thru feature is turned off. If you wish to create EWI sounds for layering with external synthesizers and samplers, however, you will need to enable this feature.

Before you can use the MIDI Thru feature, you need to ensure that your computer has a second MIDI port for connecting the external instrument to UniQuest. Here is how the EWI 4000s, the computer and the external synth or sampler will need to be connected for this application:



Please note that your external synth or sampler may have a USB Midi feature, in which case you can simply connect the instrument to your computer with a USB cable and install the MIDI drivers that came with the instrument on your computer.

Once you have connected the external synth or sampler, you will need to make sure that UniQuest for EWI 4000s is configured to use the MIDI port the external device is connected to: Open the **MIDI->MIDI in Ports...** and **MIDI->Midi Out Ports..** dialogs respectively and select these ports *in addition* to the ones already connected to the EWI 4000s.

Next, open the UniQuest Preferences dialog (UniQuest for Akai EWI4000s->Preferences on Mac, or Options->Preferences on Windows). Now select the MIDI Tab of the dialog:

Preferences	
Cubase + Sonar Name Server Patch Edit Bank Edit Libra	· · · · · · · · · · · · · · · · · · ·
MDI Thru Off On Auto MIDI Channel C Auto with Smart Port	Default Settings Mid Ogannel 1 V Mid Pont In V Mid Pont Qut V
	ery n bytes)
ОК	Cancel Apply Help

Turn on MIDI Thru and then select the MIDI Port Out to route the MIDI Thru signals to. This selection must be the port to which the external synth or sampler is connected.



Do NOT select the same port that the EWI 4000s is already using. This will create a MIDI Feedback loop and cut the note output of the EWI 4000s' synthesizer in half!

If you are not using an external device with UniQuest, turn the MIDI Thru feature OFF, or you may experience this problem by default.

If the correct output port is not shown in the **Midi Port Out** control, the external device's MIDI Port may not be selected for use with UniQuest (see above for instructions) or the port's drivers may not be correctly installed. Please refer to your MIDI interface or external device (if equipped with USB MIDI) installation instructions to correctly install these drivers and try again.

When properly configured, the following MIDI control flow will occur:

- Notes and other MIDI performance data performed on EWI 4000s will enter the editor where it will be displayed as it is passed through to the external synth or sampler which will play along with the EWI 4000s.
- All edits performed within the software GUI will generate MIDI SysEx and NRPN data which will be passed to the EWI 4000s only.

2.12 Transferring Data Files Between Different Computers

There are a few facts to keep in mind when transporting Preset, Bank and Set data created by UniQuest between different computers. If you plan to email these files or move them between Mac and PC computers, you should be aware of the following facts.

On Windows 2000 & XP, *file extensions* are used to indicate the data contained within the file and to cue the operating system which application should be launched when the file is double-clicked or otherwise interacted with.

UniQuest for EWI 4000s uses the following extensions:

.Mem - Preset Edit Buffer, .Prs - Individual Preset (from internal Bank), .Bnk - Preset Bank, .SQS - Set File, .SQC - Collection File, and .SQL - Library File

The file extensions listed here are also used by the Mac OS X version of UniQuest, but this is not the whole picture, as will now be explained.

Mac OS X relies on **File Type** and **File Creator** properties embedded within the file to provide the information required when the file is double-clicked or interacted with.

UniQuest for EWI 4000s uses the following file Type and Creator properties:

DATA	<u>TYPE</u>	CREATOR
Preset Edit Buffer	SQDA	SQUQ
Individual Preset	SQDA	SQUQ
Preset Bank	SQDA	SQUQ
Set File	SQST	SQUQ
Collection File	SQDB	SQUQ
Library File	SQLB	SQUQ



- If you create any of the above data files with the PC version of UniQuest, they will not have these properties set (Windows does not support them). As a result, Mac versions of UniQuest will not be able to open the files They will appear gray and transparent in the 'file open' dialog.
- Likewise, if you email any of the above data files as raw attachments, their **Type** and **Creator** properties will be stripped off Even if they were created on the Mac!

The solution to the email problem is simple: Simply remember to archive any Mac UniQuest data as a zip or binhex archive prior to attaching them, and always ensure you decompress the archive on a Mac running OS X. Both Mac and Windows computers will be able to load them if transferred this way.

Converting UniQuest data files created on PC for use with the Mac version is more difficult: Currently, the Mac OS X *Get Info* program does not show or set these file attributes. If your Mac is equipped with OSX Tiger, there is a way to do this with *Automator*: Otherwise, you may need to use a third-party shareware utility to do the conversion.

The next paragraphs will explain how to use OSX Tiger's Automator application to convert files from PC or email to the correct file Type and Creator properties.

Mac OSX's Automator utility can be applied to the task of converting UniQuest files from the PC version relatively easily. You will need:

- Mac OSX Tiger (which includes Automator)
- The *Change File Type and Creator* Action from <u>www.apple.com/downloads/macosx/automator/changefiletypeandcrea-tor.html</u>.

If this URL has been changed, you should search for '**Change File Type and Creator**' on the <u>www.apple.com/downloads/macosx/automator/</u> web page to access the download.

• The following workflow files downloadable from <u>http://www.psicraft.com/</u> <u>Files/AkaiPro/Automator%20Actions.zip</u>

The first step is to install the 'Change File Type and Creator' Action into Automator. Actions are like audio plug-ins: They extend Automator do do specific tasks.

Next, extract the 'Automator Actions.zip' download to your desktop. Inside the archive are four Workflow files: **Set PC Collection**, **Set PC Preset and Bank**, **Set PC Set** and **Set PC Library**. When each file is opened with Automator, you will be ready to convert the appropriate data file so that the file Type and Creator attributes are set correctly.

Since Presets and Banks are the most common data type produced by UniQuest for EWI 4000s, here is an illustrated example of the procedure:

000		Set PC Preset and Bank	0
Q			
Search			Run Stop
To show all the actions, c To find an action, enter a To add an action to the w	Action Action Action Add to Font Library Ads for Confirmation Change File Type an Copy to Clipboard Delete All IPod Notes Eject IPod Cet New Mail Calendar Pause Pause Pause Pause Pause Pause Copy Diavback Action Copy Clipboard C		Select file Files/Folders Anything Select file Check for updates Files/Folders
+	189 Actions		11.

On opening the 'Set PC Preset and Bank' Workflow file, you will see the above dialog open. Simply click on the '**Run**' button to start the Workflow.



Never click the 'Select file' button in the 'Change File Type and Creator' action: This will only change the workflow so that it no longer sets the correct type and creator attributes.

Once the Run button has been pressed, Automator will execute the first action in the workflow, which is 'Ask for Finder Items'. This will launch a file selection dialog that will open to the default folder where Preset and Bank data files are stored by UniQuest for EWI 4000s:

000	Choose a Finder Item:	
	EWI4000s	search
Network	EWI 4000snamed.Bnk EWI 4000sy Bank.Bnk factory preset.Bnk	
PSICRAFT	Firmware 0 Bank Mac. New.Bnk	
Tony	^	
Documents		
Movies		
Pictures		
New Folder	Cancel	Choose

In the illustration above, there are three bank files that already have the correct file type and creator attributes set (which is why they show the bank icon).

The top two bank files (which are selected in the illustration) do not have their attributes set correctly - Their icons (the blank document icon) reflect this fact.

Clicking 'Choose' will continue the workflow, setting the selected files to the proper attributes. Automator will indicate '**Workflow Execution Completed**', and the files will now open within the Mac version of UniQuest.

Here you can see the finder's view of the folder after the workflow completed:

$\bigcirc \bigcirc \bigcirc \bigcirc$	📁 EWI4000s		0	
		Q		
Name	Date Modified	Size	Kind	
EWI 4000s Factory Bank - Renamed.Bnk	Today, 1:06 PM	24 KB	UniQuument	
EWI 4000s Factory Bank.Bnk	Today, 12:53 PM	24 KB	UniQuument	
 factory preset.Bnk 	30-Sep-05, 12:05 PM	24 KB	UniQuument	
Firmware Od - Factory Bank Mac.	24-Oct-05, 7:42 PM	24 KB	UniQuument	
🔡 New.Bnk	25-Oct-05, 6:28 PM	24 KB	UniQuument	
5 items, 208.48 GB available				

The processed bank files are now showing the correct icon and document type.

3.0 Conclusion

This concludes the UniQuest for EWI 4000s Quick Start. You are encouraged to read through the complete PDF owner's manual for Midi Quest XL (found on the installation CD) to master UniQuest's deeper capabilities. We hope your music is enriched and enhanced by this innovative and unique music software, and also would like to thank you for reading the entire Quick Start. This knowledge will serve you well.