Read This First!
Updated MOTU Symphonic Instrument User Guide

This booklet provides important, updated installation instructions and late-breaking information regarding the MOTU Symphonic Instrument (MSI) soundbank and UVI Workstation software. The information in this booklet supersedes the included *MOTU Symphonic Instrument User Guide*, so please follow the instructions in this booklet to get started.

PACKAGE CONTENTS

The Symphonic Instrument box now includes:

- This "Read This First" updated user guide booklet
- An MSI USB thumb drive
- A card with your unique iLok license code for the Symphonic Instrument soundbank
- Symphonic Instrument manual with tear-out registration card

USB thumb drive contents

The MSI USB thumb drive contains the following:

- An updated 64-bit MSI.ufs soundbank file
- UVI Workstation installers for Mac, Windows 32-bit, and Windows 64-bit systems
- A download link for the latest version of the UVI Workstation software
- Legacy 32-bit MSI installer and MSI.dat file (for legacy computer systems running Mac OS X 10.6, Windows Vista or earlier)

UVI WORKSTATION SYSTEM REQUIREMENTS

The updated, 64-bit Symphonic Instrument soundbank (.ufs file) requires that you install the UVI Workstation software. UVI Workstation is a free multi-timbral instrument player that you use to load and play your MSI sounds. UVI Workstation operates as a stand-alone application or as a standard AU, VST or AAX plug-in that you can instantiate in your favorite audio host software. The system requirements for UVI Workstation are as follows:

- Mac OS X 10.7 to macOS 10.12 Sierra (64-bit), Mac Intel processor, 4 GB of RAM
- Windows 7 to Windows 10 (64-bit), Core Duo or faster processor, 4 GB of RAM

If your computer has an earlier operating system than those listed above, you can instead install and use the legacy 32-bit Symphonic Instrument stand-alone application and plug-in, as

documented in the *MOTU Symphonic Instrument User Guide*. See "Installing MSI on legacy computer systems" on page 11 to get started.

AN ILOK IS REQUIRED

This product requires an iLok Smart Key, a small USB device (sold separately) that holds the license for your MOTU software. Before you install and use your MOTU software, you must obtain an iLok, if you don't already have one.

☛ You will not be able to use your MSI sounds without an iLok.

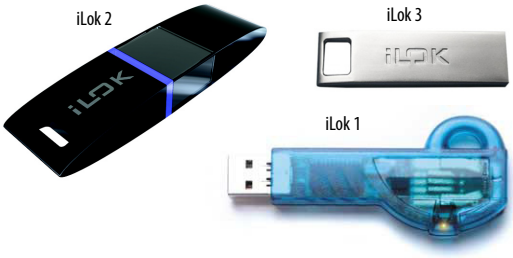

Figure 1: MSI is compatible with iLok 1, 2 and 3 USB Smart Keys.

Do you already own an iLok?

You may already own an iLok if you own any other product that uses iLok. If so, you can skip to "Downloading your MSI license to your iLok" below.

Purchasing an iLok

If you do not already own an iLok, you can purchase one from your local music retail shop, an on-line music technology reseller, or iLok.com.

iLok compatibility

MOTU instrument products are compatible with iLok 1, 2 and 3 (Figure 1).

PREPARING YOUR iLOK USB SMART KEY

MSI sounds will not load unless an iLok Smart Key is plugged into any available USB port on your computer. In addition, the iLok must hold an MSI license.

Do you already own an iLok?

You may already own an iLok if:

- you own another MOTU instrument product
- you own a 3rd-party product that uses iLok

If so, you can skip to "Downloading your MSI license to your iLok" below.

Purchasing an iLok

If you do not already own an iLok, you can purchase one from your local music retail shop or on-line music technology reseller.

Downloading your MSI license to your iLok

Your MSI package includes a card with your unique iLok license code printed on it. Follow the instructions below to redeem the code and download the resulting MSI soundbank license to your iLok.

☛ MSI sounds will not load without the downloaded license in your iLok, so be sure to follow these important instructions before proceeding to install and use MSI.

Installing iLok License Manager

1 Download and install the iLok License Manager application from ilok.com.

This software is required for iLok operation on your computer.

2 Plug in your iLok into any available USB port on your computer.

3 Launch iLok License Manager and create an account, if you don't already have one.

4 Choose "Redeem Activation Code" from the Licenses menu, then enter your unique, 30-digit license code (found on the license card included with your MSI package).

5 Click on your account name to view your new authorization in the list. Click it to select it, choose "Activate" from the Licenses menu, select your iLok in the window that appears, and click "Activate" to move your activated license into your iLok.

Your MSI software license is now in your iLok. Be sure the iLok is connected when you use MSI.

Managing iLok licenses

If you have multiple iLoks, you can consolidate all of your licenses onto a single iLok. Use iLok License Manager to move product licenses from one iLok to another, consolidate them onto one iLok, protect them from loss or damage, or otherwise manage your product license assets.

If you have further questions about your iLok, visit www.iLok.com, or contact MOTU Customer Service at +1 (617) 576-2760.

INSTALLING THE MSI.UFS SOUNDBANK

Insert the MSI USB drive into your computer and drag the MSI.ufs soundbank file to your hard drive. You can place it wherever you wish.

☛ IMPORTANT: Do not rename the MSI.ufs file or change it in any way.

INSTALLING UVI WORKSTATION

1 On the MSI USB drive, double-click the file called *Web link for latest version of UVI Workstation* to navigate to the UVI Workstation web page (www.uvi.net/uvi-workstation.html), click the *Downloads* tab and download the installer for your computer's operating system.

☛ If your computer is connected to the internet, we recommend obtaining the latest UVI Workstation installers from uvi.net (as described in step 1). However, if you do not have internet

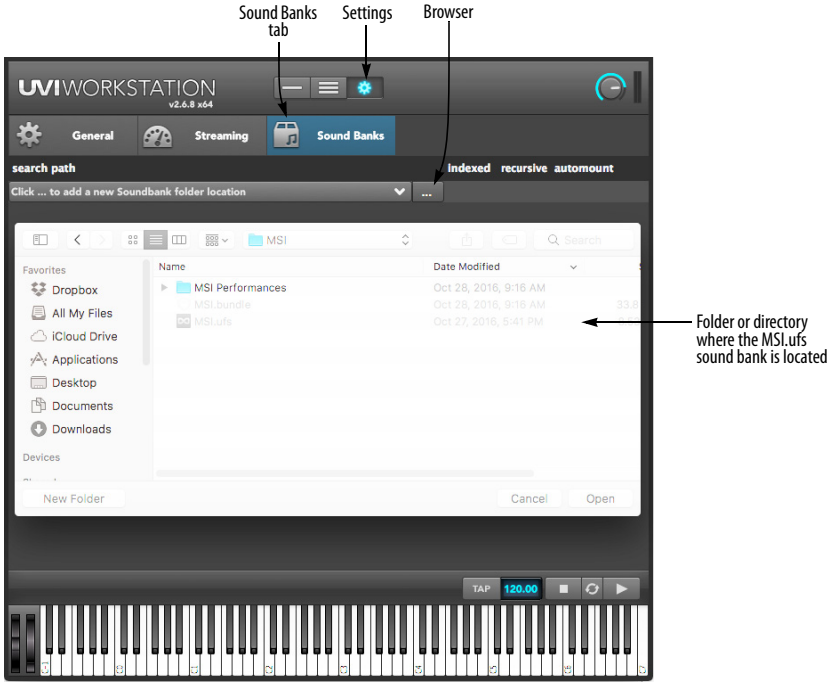

Figure 2: Locating the MSI.ufs sound bank in UVI workstation.

access, you can use the installers provided on the MSI thumb drive. Please note, however, that they may not be the latest version.

2 Double-click the installer and follow the on-screen instructions to complete the installation.

LAUNCHING UVI WORKSTATION

The first time you run UVI Workstation (either the app or the plug-in), you will need to locate the MSI.ufs file on your hard drive. As long as you keep the MSI.ufs file in the same location, you will only have to do this once, as follows:

1 Open UVI Workstation and click the Settings (gear) icon (Figure 2).

2 Click the Sound Banks tab (Figure 2).

3 Click Browser button (Figure 2), navigate to the folder in which the MSI.ufs file is stored and click the *Open* button.

4 Restart UVI Workstation.

USING UVI WORKSTATION

The following sections cover several topics that are specific to using the MSI sound bank with UVI Workstation. For complete information, please refer to the UVI Workstation user guide available at uvi.net/uvi-workstation.

PART LIST

UVI Workstation is multitimbral; this means that one instance of the plug-in can load different instruments (presets) simultaneously, and each instrument can play its own individual part via a separate MIDI channel.

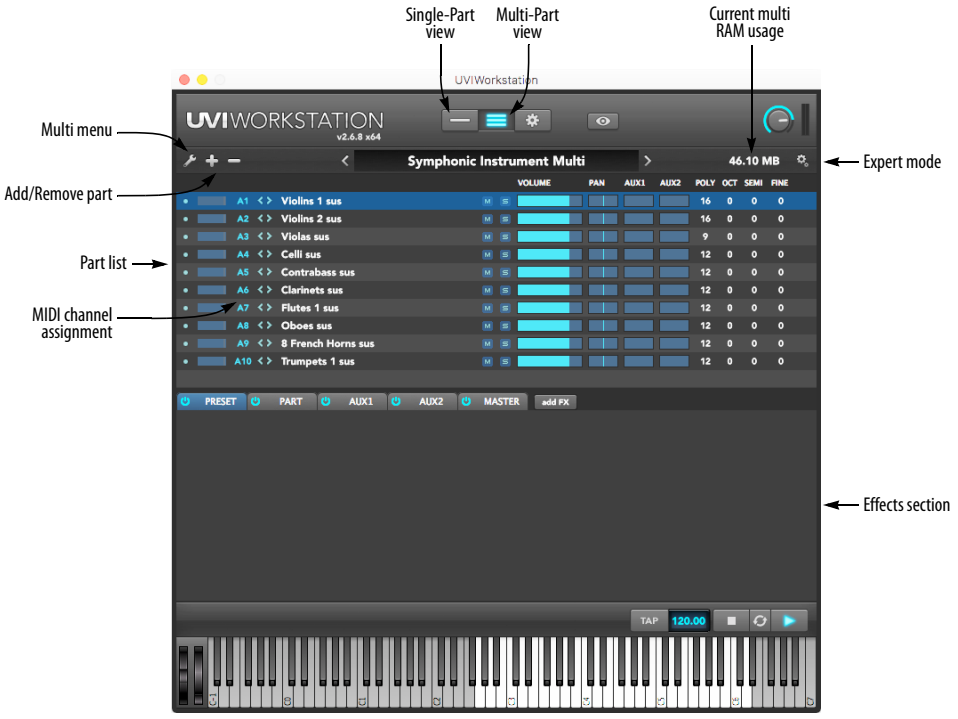

Figure 3: Multi-Part view in UVI workstation.

UVI Workstation displays all parts (and the instruments loaded into them) in one window. To access these parts, click the Multi-Part view button (Figure 3). In this window, you have access to several parameters (such as volume, aux sends, etc.) for each instrument/part at the same time, allowing you to make quick adjustments. For more in-depth control of an individual instrument's (part's) parameters, click the Single-Part view button (Figure 3).

FOUR BANKS OF MIDI CHANNELS

UVI Workstation supports 64 separate MIDI channels, divided into four banks of 16 channels each: Bank A, B, C and D. MIDI channels in Bank A are designated as A1, A2, A3, A4, etc. up to A16. Similarly, channels in Bank B are designated as B1, B1, B2, B3, etc. and so on for banks C and D as well. When you choose MIDI channels for UVI Workstation in your host software or in the part list (as shown in Figure 3), you will always see them presented in this fashion (bank letter plus MIDI channel number).You can use any MIDI channel you wish for any UVI Workstation parts. Parts (as many as you wish) can also share any MIDI channel.

☛ Some plug-in formats do not support multiple banks of MIDI channels. If you are using UVI Workstation in one of these plug-in formats, and you need more than 16 parts, open a second instance of the plug-in.

PART PARAMETERS

For details about the settings found in the Part parameter section (Figure 4), refer to the *MOTU Symphonic Instrument User Guide* (pages 36-40).

Figure 4: Single-Part view in UVI workstation.

EXPERT MODE

To access Expert Mode settings (Figure 5), navigate to the Multi-Part view and click the Expert Mode button (Figure 3).

KEYSWITCHING

The Keyswitch settings (Figure 5) allow you to load multiple presets into two or more parts and then dynamically play and mute them from your MIDI controller using key switching, note range, velocity range, or any combination of the three. This powerful feature gives you a great deal of control over the instruments your are playing from your controller.

Setting up parts for keyswitching

Load the instruments you would like to include for use. Then assign them all to the transmit MIDI channel you will use to control them from your MIDI controller. They should all share this same transmit channel. For example, in Figure 5, all parts are assigned to MIDI channel A1, which is the MIDI channel for the MIDI controller being used.

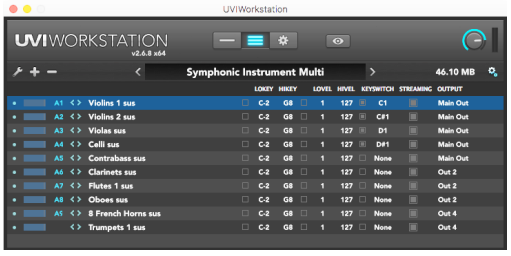

Figure 5: Expert mode.

The Keyswitch settings

The Keyswitch column (Figure 5) shows the keyswitch setting for each part in UVI Workstation. Make the Lo/Hi Key, Lo/Hi Vel, and/or Keyswitch settings as desired for each part. You can use any combination of the three settings for each part.

To enable a setting, click the check box next to it, so that the check box is filled in. An empty box means that the setting is disabled (not used).

Lo/Hi Key

The *LoKey* and *HiKey* columns determine the note range over which the instrument will play.

Lo/Hi Vel

The Lo/Hi Vel (velocity) columns determine the MIDI note-on velocity range that will trigger the instrument.

Key Switch

The Key Switch determines the MIDI note that can be played to toggle the instrument on and off. The key switch note will not trigger any audio, so it can be helpful to choose a note outside of the instrument's LoKey/HiKey range. Note that multiple instruments can have key switches, allowing you to turn them on and off either independently or in groups for instant stacks.

EFFECTS SECTION

In the Effects section of the Single-Part view (Figure 3), UVI Workstation allows you to add a wide variety of effects, including reverb and EQ, with the flexibility to apply an unlimited number of effects to an individual preset, the current multi, or both.

Adding effects to a part, preset or multi

You can add an effect to either a part or a preset from the Single-Part view or Multi-Part view.

In the Single-Part view:

1 Click the FX button.

2 Choose whether you would like to add the effect to the preset or the part by selecting the correct tab.

3 Choose *Add FX*.

☛ Note: The Preset and Part effects tabs behave slightly differently. Preset effects are tied to the instrument you have selected: if you add an effect and then decide to switch instruments (i.e. from a solo violin to a violin ensemble), that effect will be removed. Adding the effect to the Part tab means that the effect will remain, even if you change that part's instrument.

In Multi-Part view, the FX section is always visible (as seen in Figure 3), but the functionality is the same as the Singe-Part view. The Multi-Part view also allows you to add effects to two Aux channels and the Master bus.

STREAMING

Disk streaming allows you to land very large presets (that consist of a large amount of audio data) into UVI Workstation, even if the samples are larger than the amount of free memory (RAM) available in your computer. Rather than loading the entire sample set into RAM, UVI Workstation reads (streams) the sample from the hard drive as the preset is being played.

Disk performance

Disk streaming performance can be heavily affected by the speed of the hard drive on which the MSI.ufs file resides. For streaming, the faster the hard drive is, the better. You should use at least a 7200 rpm drive. If you are using UVI Workstation in a host application such as Digital Performer, Pro Tools, or Logic, and you are also recording and playing disk tracks int he host software, you should strongly consider placing the MSI.UFS file on a separate hard drive used specifically for samples. If your host software is recording and playing audio files while the UVI Workstation is attempting to stream samples from the same drive, the hard drive can quickly be pushed beyond its performance limits. If the disk tracks are playing from one hard drive, and UVI Workstation is streaming from another separate drive, you are much less likely to encounter disk performance issues.

Enabling streaming

To enable streaming for a part, enter Expert mode (Figure 5) and click the check box for that part. Disk streaming can be enabled in UVI Workstation on a part by part basis. For example, you could turn on streaming for parts 1-16, but leave it turned off for parts 17-32.

Streaming settings

To optimize your disk streaming setup, navigate to Settings > Streaming and select the correct hard drive type and cache size for your system. See the *UVI Workstation User Guide* for further information.

OUTPUTS

The Outputs column (Figure 6) lets you assign each part to one of 17 possible stereo output pairs (main outs plus 16 stereo aux outputs).

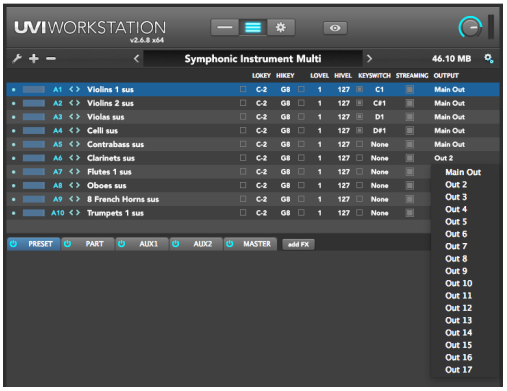

Figure 6: Assigning an output.

Each output pair can be assigned to (or routed by your host audio software to) a pair of physical outputs on your audio hardware. This provides you with a great deal of flexibility in sub-mixing UVI Workstation's various parts. For example, in Figure 5, the strings (parts 1-5) are being sub-

mixed to the Main Outs; the woodwinds (parts 6-8) are being sub-mixed to Out 2; and the brass (parts 7-8) are being sub-mixed to Out 4.

The list of stereo pairs will always be the same, regardless of whether UVI Workstation is being used as a plug-in or a standalone instrument.

STAND-ALONE OPERATION

UVI Workstation can run as a standalone instrument application, independent or a plug-in host, turning your Mac or PC into a streamlined orchestra instrument powerhouse with unlimited parts, disk streaming, 16 independent audio outputs and 8 GB of orchestra sounds. Stand-alone operation also allows you to use the Symphonic Instrument sounds with music software applications that do not host 3rd-party instrument plug-ins.

Running the standalone version

On a Mac, the standalone version of UVI Workstation can be found in your Applications folder. Just double-click it to launch it.

On Windows, it can be found under C:\\Program Files\UVI Workstation or C:\\\Program Filesx86\UVI Workstation.

Standalone operation is identical to plug-in operation, with the exception of these additional stand-alone settings described in the following sections.

Preferences

The standalone version of UVI Workstation has a few basic settings that can be found in the File Menu > Audio and MIDI Settings.

Audio Device tab

The Audio Device tab preferences (Figure 7) let you make several audio hardware device settings.

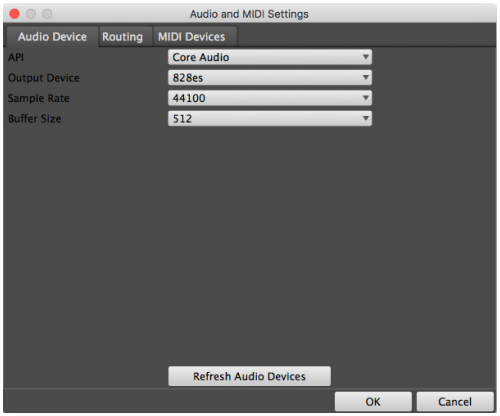

Figure 7: Audio Device tab.

API

Choose the desired audio driver for the audio interface you are using for UVI Workstation. For Windows, if your audio device provides both MME and ASIO, you are free to choose either, but we recommend using the ASIO driver for best performance.

Output Device

Choose the desired audio hardware from the Output Device menu (Figure 7). If you do not see the desired hardware device in the menu, try clicking the Refresh Audio Devices button. If you still do not see the desired hardware device, confirm that you have correctly installed its driver and that it is otherwise functioning properly, independently of UVI Workstation. For example, can you access the hardware from the system software and other audio applications?

Sample Rate

Choose the desired Sample Rate (Figure 7) for playback. The choices in this menu are provided by your audio hardware driver, and the setting you choose here is the sample rate your hardware will be set to. 44.1 kHz is the standard rate for audio compact discs. The Symphonic Instrument samples are all provided in 16-bit resolution at

44.1 kHz, but if you choose to operate at a different sample rate, they are same-rate converted on the fly to match the rate you've chosen.

Buffer Size
This setting is crucial for managing your computer's processing resources. In general, settings of 256, 128 or 64 samples produce better latency performance. However, lower latency settings place higher demand on your computer's processor.

Refresh Audio Devices
If you make changes to your audio device configuration (outside of UVI Workstation) or don't see the output device you'd like to use, click the Refresh Audio Devices button (Figure 7) to see those changes reflected in UVI Workstation Audio Devices tab.

Routing tab

The standalone version of UVI Workstation provides 17 independent stereo outputs (a main pair, plus 16 additional separate output pairs numbered 2 through 17) to which you can freely assign each part (instrument), as explained in "Outputs" on page 7.

The Routings tab (Figure 8) provides a way for you to map each UVI Workstation output to a physical output connector on your audio hardware. For example, you might map UVI Workstation's *Main Out Left/Right* output pair to the Main outs of your 828es audio interface, as demonstrated below in Figure 8.

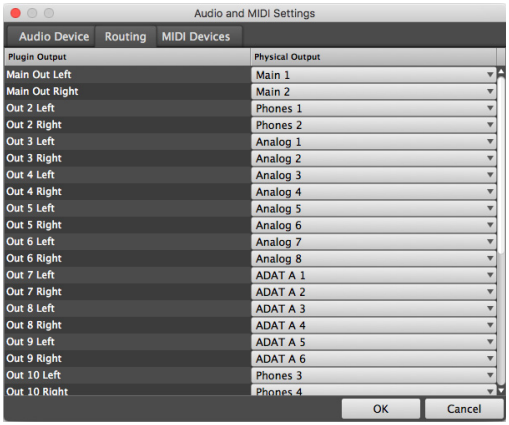

Figure 8: Routing tab.

The connectors you see in the Physical Output menus (Figure 8) are provided by your hardware and its software driver. If you do not see the desired hardware device outputs in the menus, be sure that you have correctly installed its driver and the it is otherwise functioning properly, independently of UVI Workstation. You can also try using Refresh Audio Devices in the Audio Device tab, or closing and reopening the Audio and MIDI Settings window.

MIDI Devices tab

The MIDI Devices tab (Figure 9) lets you configure how external MIDI sources are mapped to UVI Workstation's 64 MIDI channels (four banks of 16 channels each).

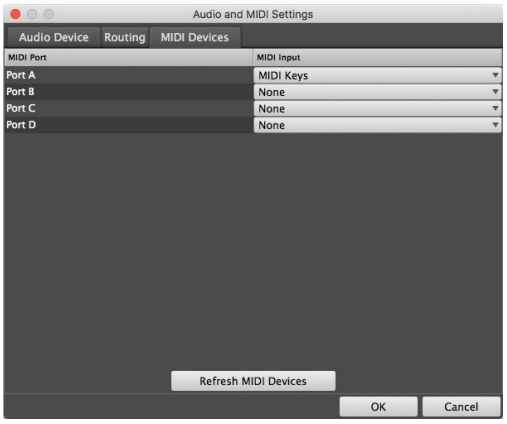

Figure 9: MIDI Devices tab.

As defined by the MIDI specification, MIDI channels are supplied in banks of 16 channels. For example, one MIDI cable carries 16 MIDI channels. On multiport MIDI interfaces, such as the MIDI Express XT, each MIDI port carries its own set of 16 channels.

This means that there is no such thing as MIDI channel 17, 18. 19, etc. So how does UVI Workstation provide 64 channels? The answer is: by dividing them into four banks of 16 channels each: Bank A, Bank B, Bank C and Bank D. Each bank represents one MIDI cable - or MIDI port on a MIDI interface. The MIDI Devices tab (Figure 9) lets you map external MIDI sources to each bank. These sources could be any of the following:

- A MIDI IN port on a MIDI interface that is connected to the computer
- A "virtual" MIDI cable from a MIDI software running concurrently with UVI Workstation (such as Digital Performer)
- A USB MIDI controller (a keyboard that is connected directly to the computer via a USB cable)
- An audio interface that also supplies one or more MIDI IN ports (such as the 828es or UltraLite-mk4)

When any of these devices are "on line" (that is, they are connected to your computer with their drivers properly installed - or in the case of MIDI software programs, they are running simultaneously with UVI Workstation), they will display their available MIDI ports in the four MIDI port menus shown in Figure 9.

You can choose any source you wish for each bank. If you choose the same source for two or more banks, just be aware that you will trigger the same MIDI channel on both banks. For example, if you assign your controller to both Port A and Port B, and it transmits on MIDI channel 1, you will trigger any UVI Workstation parts that are assigned to either channel A1 or B1. To make channel A1 and B1 independent from each other, assign them to different sources in the MIDI Devices tab.

Refresh MIDI Devices

If you make changes to your MIDI device configuration (outside of UVI Workstation), click the Refresh MIDI Devices button (Figure 9) to see those changes reflected in UVI Workstation MIDI Devices tab.

RAM USAGE

The amount of RAM being used is displayed in the top-right corner of both the Single-Part view (Figure 4) and the Multi-Part view (Figure 3). The Single-Part RAM Usage display shows the amount of RAM being used by the currently selected part, while the Multi-Part RAM Usage display shows how much RAM is being used by the current Multi. These help you keep track of how much memory in your computer is being used for the sounds loaded into UVI Workstation. It is important to never use more RAM than your computer has available, as this means that the instruments won't be able to play properly. In general, try to avoid loading more than 70% of your available RAM.

INSTALLING MSI ON LEGACY COMPUTER SYSTEMS

The legacy 32-bit MSI software (stand-alone instrument and plug-in) is officially supported on systems running up to OS X 10.6.8 and Windows Vista. If you wish to install the legacy MSI software on such a computer system, please follow this procedure:

1 Email customerservice@motu.com with your iLok ID and the email associated with your iLok account to request a 32-bit MOTU Symphonic Instrument iLok license.

2 Once you have received email confirmation, transfer the license from your iLok account to your iLok USB Smartkey as instructed by MOTU customer service and leave the iLok Smartkey connected to the computer.

3 Insert the MSI USB thumb drive and drag the MSI.dat soundbank file onto your hard drive. You can place it wherever you wish.

☛ IMPORTANT: Do not rename the soundbank file or change it in any way.

4 Double-click the legacy MSI installer that applies to your computer system and follow the directions given by the installer.

5 Consult the *Symphonic Instrument User Guide* for further information.