MOTU

```
Press contact:     Jim Cooper
Phone:             (617) 576-2760
Email:             jim@motu.com
Web:               www.motu.com
```

FOR IMMEDIATE RELEASE

MOTU DEBUTS MX4 VIRTUAL INSTRUMENT PLUG-IN FOR MAS, AU AND RTAS

Print-ready and web-ready product images are here:

http://www.motu.com/marketing/motu_products/software/mx4/

NEW YORK CITY, JACOB JAVITS CENTER, AES SHOW, BOOTH 726 – Friday, October 10, 2003. MOTU, Inc. (www.motu.com) is demonstrating MX4 ($295), a new virtual instrument plug-in for MOTU DP4 (MAS), Pro Tools (RTAS) and other Mac OS X audio hosts (Audio Units). MX4 features a unique, hybrid synthesis engine that combines several forms of synthesis, including subtractive, wavetable, frequency modulation (FM), amplitude modulation (AM) and analog emulation. MX4's flexible programming and advanced modulation architecture provide the intimacy of a vintage synth, the flexibility of a modular synth, and the innovation of a virtual synth.

"Our inspiration for MX4 came from legendary subtractive synthesizers like the Prophet-5, PPG Wave and Moog Modular," said Jim Cooper, MOTU Marketing Director. "But then we took the concept further using today's powerful computer software technology. The result is a unique, hybrid synthesis engine that delivers both fresh and vintage synths sounds alike. Whether you're looking for killer synth presets or intense synth programming, MX4 is for you."

As a plug-in, MX4 operates efficiently and provides unlimited voices, polyphony and instantiations (subject to the processing resources of the host computer). Playback is sample-accurate with supporting host applications, such as Digital Performer 4. MX4's 32-bit internal resolution provides wide dynamic range, and it supports all standard sample rates up to 192kHz. Users can work fast and intuitively in a single, efficiently organized window labeled with real-world values like semitones, decibels, etc. All settings are saved with host software projects for instant recall.

MX4's basic synthesis architecture provides 3 oscillators with modulatable waveform symmetry and hard sync, 2 variable topology multimode filters, 4 variable waveshape LFO's and 4 ADSHR envelopes.

Oscillators

MX4 provides all standard analog synthesizer waveforms, but every waveform has adjustable symmetry. This allows users to create standard pulse width modulation effects, as well as waveform "morphing" effects, such as smoothly changing from a triangle waveform to a sawtooth. Changing the symmetry of simple sine waves can even create interesting and unique spectra.

Each of the three oscillators can use a wavetable instead of a standard waveform. Dozens of wavetables are supplied, and users can also create their own. The wavetable on each oscillator can be individually indexed, and symmetry can be applied to wavetables as well, for a wide array of timbres.

Oscillators 1 and 2 can be synced together to create the same hard sync effects found on classic analog polysynths such as the Sequential Circuits Prophet-5 and Moog Memorymoog.

Oscillator 3 serves as a frequency modulation (FM) source for other oscillators — or the filter cutoff frequency. Because oscillator 3 includes all waveforms, as well as the wavetable and symmetry features found on the other oscillators, it can produce a wide array of modulation effects that extend from LFO rates into the audible range.

In addition to the three oscillators, an independent fundamental-tone oscillator and ring modulator are also included to further extend the oscillator section.

Filters

Two resonant multimode filters (with modulatable overdrive) provide low-pass, high-pass, band-pass and notch filters with independent slope specified as 6, 12, 18 or 24dB per octave for a total of 16 different filter types. As a result, users can create a wide variety of vintage keyboard sounds. Both filters can also be stacked, combining them for a total of 48dB per octave.

MX4's unique Variable Filter Topology™ allows users to easily and intuitively arrange the two filters and overdrive in 14 different configurations that produce over 3,000 different filter topologies. Users can then further adjust the filter settings, providing a very wide range of filter effects to explore.

Modulation architecture

The four variable waveshape LFOs include adjustable symmetry, rate delay, fade and phase. Four ADSHR envelopes are also provided, with graphic controls for intuitive programming. All parameters can be modulated.

Flexible modulation routings are essential for expanding the sonic palette of a subtractive synthesizer such as MX4. All continuously variable parameters, including LFO's and envelopes, can be modulated by many sources, including track automation,

MIDI controllers, LFO's & envelopes. They can even be modulated by multiple sources simultaneously.

Conversely, each modulation source in MX4 can modulate an unlimited number of destinations simultaneously, with the modulation range independently scaled at each destination. The provides modulation flexibility rarely seen outside of a modular synthesizer - but without the associated complexity. A user can click a modulation source, and MX4 displays the range of all parameters it is modulating. The filters and envelopes display the modulation range both on the knob itself and on the graphical representation. Modulation routings are clearly displayed in the MX4 window so users do not have to search through multiple pages or windows.

MX4 is expected to ship in Q4, 2003. Price is $295.

# # #

CONTACT INFORMATION:

Mark of the Unicorn, Inc.
1280 Massachusetts Ave.
Cambridge, MA 02138
Phone: (617) 576-2760
Fax: (617) 576-3609
Email: info@motu.com
Web: www.motu.com

Press contact: Jim Cooper
Phone: (617) 576-2760
FAX: (617) 576-3609
Email: jim@motu.com

MOTU is a leading developer of computer-based music and audio recording software and hardware peripherals. Mark of the Unicorn and Digital Performer are registered trademarks of Mark of the Unicorn, Inc. Other products mentioned are the trademarks of their respective manufacturers.