Introduction

Congratulations on your purchase of the M-Audio Key Rig software. This multi-function device includes four high-quality instruments:

- The **SP-1 Stage Piano** module provides realistic reproduction of various acoustic and electric pianos, and allows two pianos to be layered together.

- The **MS-2 Polyphonic Synthesizer** is a subtractive synth that uses traditional analog-type oscillators, as well as wavetable and FM synthesis.

- The **MB-3 Electromagnetic Organ** is a faithful reproduction of classic tone-wheel organs, including a Leslie rotary speaker simulator.

- The **GM-4** is a General MIDI sound module featuring all 128 GM sounds and a percussion kit.

System Requirements

Windows

- Pentium® III 500 MHz or AMD7 (P4 / Athlon 1 GHz or faster recommended)
- 256 MB RAM
- 600 MB free hard disk space
- Windows® XP
- VST 2.0 compatible host software
- MIDI Interface
- CD-ROM drive for installation
- Internet connection (on any computer) for software certification

Macintosh

- Power Macintosh® G3 500 MHz (G4 or faster recommended)
- 256 MB RAM
- 600 MB free hard disk space
- Mac® OS X Version 10.3 or higher
- VST 2.0, AU or RTAS compatible host software
- MIDI Interface
- CD-ROM drive for installation
- Internet connection (on any computer) for software certification

Installation Procedure

Note: The Installation CD includes both the M-Audio Key Rig as well as the M-Audio Drum & Bass Rig installers. The Key Rig package includes a certification code for only the M-Audio Key Rig, but you may authorize the Drum & Bass Rig as a fully working 30-Day demo version (see below for Certification Information).

Windows

1. Insert the M-Audio Key Rig CD-ROM in your computer's CD-ROM drive.
2. Explore the CD and double-click the file named "M-Audio Key Rig Setup." The installer will execute.
3. During the installation, the installer will ask you to specify two directories on your computer. The first directory is your VST plug-in directory. This is where the M-Audio Key Rig VST plug-in will be installed. The second directory is Key Rig's sound data file. The file is about 260 MB in size and can be placed in a different location from the program, if necessary.
4. When the installer finishes installing the software, press "Finish."
5. M-Audio Key Rig is now installed on your computer. You will need to certify your copy of the software before you begin making music— please see "Certification" below for these directions.

Macintosh

1. Insert the M-Audio Key Rig CD-ROM in your computer's CD-ROM drive.
2. Double-click the CD that appears on your desktop
3. Open the folder for the plug-in format you require (AU, RTAS, VST, or stand-alone)
4. When the installer finishes installing the software, press "Close."
5. M-Audio Key Rig is now installed on your computer. You will need to certify your copy of the software before you begin making music— please see "Certification" below for these directions.

Certification

1. Once the M-Audio Key Rig software has been installed, start your host audio application (for example, Ableton Live).
2. Load the M-Audio Key Rig and open its window.
3. Click on the "M-Audio" logo in the upper right corner of the Key Rig. A pop-up window will appear.
4. Enter the Product Certification Code (printed on the Quick Start Guide included in the M-Audio Key Rig package)
5. Once you've entered your code, you have two choices: You may certify your product on-line or off-line. If your computer is connected to the Internet, go to the section named "Certify On-Line" below. If your music computer is not connected to the Internet, go to the "Certify Off-Line" section below.

Certify On-Line

1. Click the "Certify On-Line" button and Key Rig will open your default web browser and connect you to the M-Audio website.
2. Enter your registration information in the spaces provided, and press "Submit."
3. In a few moments, you'll receive an e-mail containing your registration certificate. Follow the directions in the e-mail to finish certification.

Certify Off-Line

1. Click the "Certify Off-Line" button. Key Rig will create an Internet shortcut on your computer's desktop.
2. Copy this shortcut onto a disk or memory card.
3. Place the disk or memory card in a computer that is connected to the Internet.
4. Double-click the Internet shortcut on the disk or memory card, and your web browser will open, connecting you to the M-Audio website.
5. Enter your registration information and press "Submit."
6. In a few moments, an e-mail will be sent to you containing your registration certificate. Save the certificate to the disk or memory card.
7. Place the disk or memory card back into your music computer.
8. Double-click the product certification file on the disk or memory card to complete certification.

Using the Key Rig as a Plug-in

The M-Audio Key Rig runs as an RTAS, VST, or AU plug-in. Consult your host application's documentation for information on loading plug-ins.

Using the Key Rig in Stand Alone Mode

In addition to support for most popular plug-in formats, the M-Audio Key Rig runs as a atand-alone application. On the Macintosh, the stand-alone version of Key Rig uses the default audio settings of the operating system. On Windows, the stand-alone version includes additional configuration settings:

Windows Stand Alone

The Key Rig stand-alone application for Windows includes four controls at the top of the application's window:

The controls are as follows (from left to right):

Sound Card Selector: click this control to select the desired sound card for audio output.

Output Selector: click this control to choose the audio outputs for Key Rig (for multi-output sound cards only).

On Button: clicking this button turns Key Rig on or off.

Cfg...: click this button to open the selected sound card's ASIO Control Panel.

Using the M-Audio Key Rig

The M-Audio Key Rig is a device consisting of four instruments, a master effect generator, and global settings. Each of these sections are explained below:

Global

The strip at the top of the Key Rig sets global settings that affect all instruments.

Certification Dialog: to open the Certification dialog, click the Key Rig or M-Audio logos on the left or right side of the top strip of the rig. This window also displays the Key Rig version number information.

Load/Save: the Load/Save buttons at the top of the Key Rig are for loading and saving bank files. These files contain all program/patch information, MIDI channel and MIDI CC assignments, volumes, panning, key range, transpose, MFX (master effects) send, on/off status, etc. for all four instruments within the Key Rig, as well as the global MFX settings, fine tune, tempo, master swing and master volume parameters. The user can also save and load banks via the menu that appears in their host application. Key Rig banks are saved and loaded from a folder called "Key Rig Patches."

Master FX

Clicking the Master FX section produces a drop-down menu of 49 effects algorithms organized into submenus by type. This menu of effects is exactly the same as the ones available in the SP-1 Stage Piano and the MS-2 Poly Synth. For a listing of effect types, see the "Effects Presets" listing below.

Once an effect is selected, the effect name will be displayed and two specially chosen effect edit parameters, plus a mix parameter, will be displayed with useful preprogrammed preset settings. The names of the two effect edit parameters vary depending on the type of effect that is in use. For example, a reverb may display "Size" and "Damp" (room size and damping) for its parameters. A delay may display "Time" and "Fbk" (delay time (speed) and feedback (regeneration)).

Mix: governs the MFX wet/dry balance.

Fine Tune: adjusts the fine-tuning of all instruments in the Rig.

Tempo: allows the user to set a song tempo that will set tempo-sync'ed delays and LFOs when there is no tempo detected from the host by the Key Rig.

Master Volume: controls the output volume of the whole Key Rig.

MIDI CC Controls

All useful parameters in all instruments in the Rig have been pre-assigned MIDI controllers corresponding to the default CCs used by current M-Audio keyboards (GM Patch). See the patch and preset lists at the end of the manual.

It is also possible to customize these settings. Right-clicking (Windows) or control-clicking (Macintosh) a parameter opens a menu with the following options:

CC: hover the mouse over this option to display a pop-up list of available MIDI continuous controllers, and select the desired continuous controller from the list.

Learn: select this option and move a control on your hardware MIDI controller to assign it to the parameter automatically.

Forget: select this option to remove a MIDI continuous controller assignment.

Note: Each continuous controller may control only one parameter at a time.

Instrument Controls

To the right of all instruments in the Key Rig is an instrument control area and mixer.

Load/Save: in addition to the global Load/Save menus at the top of the Rig, each instrument has its own Load/Save menu and library of patches. Clicking the area above the Load and Save buttons produces a drop-down list of all factory content for an instrument. Patches can be loaded for the instrument by clicking a patch in the drop-down list. The patch will be loaded and its name displayed in the slot. When clicking Load or Save buttons, a Load/Save dialog appears. Patches are loaded and saved into folders with a name corresponding to the particular instrument chosen.

Hi/Lo: sets the highest and lowest notes for the instrument's key range.

Tr: transposes the instrument by any amount within a range of plus or minus 24 semitones.

Ch: selects the MIDI channel used to play the instrument.

MFX: sets the send level for the instrument to the MFX (master effects) at the top of the Rig.

Pan: sets the instrument's pan position.

On: turns the instrument on or off.

Volume: the slider on the right-hand side of the instrument controls section controls the instrument volume. A meter displays output level when the instrument is played.

SP-1 Stage Piano

The SP-1 Stage Piano will play two piano or pad presets simultaneously, chosen via the Preset Selector wheels. The two presets can be layered or split, or you can choose to play only a single preset by choosing "None" with one of the Preset Selector wheels. The presets include seven acoustic pianos, four electric pianos, and three pads (only available for the second Preset Selector wheel). The first 10 SP-1 presets are created using multiple velocity sample layers; preset 11 uses FM synthesis, and presets 12-14 (available only on Preset Selector 2) are made from a combination of sampled strings and analog synthesis. The SP-1 has two dedicated effects.

Preset Select Wheel 1: this rotary knob chooses a piano preset from the following list—

01 Natural Grand
02 Bright Grand
03 Soft Grand
04 Hard Grand
05 Concert Grand
06 Upright
07 Honky Tonk
08 Electric Piano 1
09 Electric Piano 2
10 Wurli
11 FM Piano
12 None

Velocity: adjusts the velocity (dynamic) response for preset 1. A setting of full (to the right) sets the largest dynamic range between hard and soft played notes. A setting of zero (to the left) velocity has no effect on dynamics.

Tone: turning the knob to the left filters or reduces the brightness of the preset.

Mix: sets the volume balance between preset 1 and 2.

Split: sets the note at which the keyboard splits. Preset 1 always plays below the split point and preset 2 always plays above (including the selected note). Possible split notes are: C2, F#2, C3, F#3, C4, F#4, C5.

Detune: turning to the right adjusts the tuning of preset 1 negatively and preset 2 positively.

Preset Select Wheel 2: preset 2 contains the same piano presets as preset 1, but has three additional pads—

01 Natural Grand
02 Bright Grand
03 Soft Grand
04 Hard Grand
05 Concert Grand
06 Upright
07 Honky Tonk
08 Electric Piano 1
09 Electric Piano 2
10 Wurli
11 FM Piano
12 Straight Pad
13 Sweep Pad
14 Long Reso Pad
15 None

Octave: transposes preset 2 up or down by one or two octaves.

Tone: turning the knob to the left filters or reduces the brightness of preset 2.

Serial/Parallel

- Serial: Both presets input to FX 1, the output of FX 1 is then input to FX 2.
- Parallel: Preset 1 is input to FX 1. Preset 2 is input to FX 2.

FX Preset Drop-Down Menu: clicking anywhere inside the white FX name field produces a drop-down FX presets list, featuring the same effects presets available in the master "FX Type" menu.

Mix: sets the wet/dry balance of the effects.

Effects Edit Controls: the two white fields to the right of the FX mix controls display the effect parameters that can be edited, which vary in name depending on the selected effect preset.

MS-2 Polyphonic Synthesizer

The MS-2 is a polyphonic synthesizer with preset oscillators, filters, amp, modulation, and effects settings. The synthesis is generally analog, but oscillators are also created with wavetables and FM.

Oscillator Section

Oscillator Type: clicking in the oscillator "Type" field produces a drop-down menu of 85 oscillator presets (see "Presets Listing" for more information). An oscillator type can include any combination of up to three analog oscillators, two wavetables, a sub oscillator (square wave) and white noise. Analog oscillators are created from combinations of saw, unison saw, square, pulse and sine waves. FM oscillators are made with a single sine wave carrier and up to two sine wave modulators. Presets are organized into "Styles" (pads, polys, leads, etc.) yet all oscillators can be used for any kind of sounds and in combination with any of the different filter, amp, and modulation presets.

Wave: all oscillator types have a pre-programmed "Wave" knob assigned to the most useful parameters for changing the sound of the oscillator. This varies and could be, for example, the width of a pulse wave, the detune of a unison sawtooth wave, the amount of sync for a sync wave, the balance of noise to a pitched oscillator, wavetable position or FM modulator level, etc. This wave parameter is also available to be modulated in various ways via the modulation presets.

Detune: specific oscillators within each preset have been assigned detune ranges for widening the sound.

Mono: all oscillator presets can play polyphonic or monophonic. Logical oscillators such as "Leads" or oscillators designed to play in unison with detune will load monophonically by default, but can then be set to poly. Polyphonic types can also be set to mono.

Filter Section

Filter Type: clicking in the filter "Type" field produces a drop-down menu of 47 filter presets (see "Presets Listing" for more information). A filter type includes settings such as whether the filter is high pass or low pass, resonance amounts, filter velocity response, key tracking, and filter envelope settings.

Reso: controls resonance amount.

Env Depth: controls the depth of the filter envelope and can be set positively or negatively from the zero position (12 o'clock).

Cutoff: controls filter cutoff frequency.

Envelope: the graphical envelope allows you to edit or set the filter envelope's attack, decay, and release times, as well as sustain level, by clicking and dragging the three square handles.

Amp Section

Amp Type: clicking in the amp "Type" field produces a drop-down menu of 27 amp presets (see "Presets Listing" for more information). An amp type includes settings such as velocity-to-amplitude, panning, key tracking, and amp envelope settings.

Velocity: controls the velocity-to-amplitude response.

Envelope: the graphical envelope allows you to edit or set the amplitude envelope's attack, decay, and release times, as well as sustain level, by clicking and dragging the three square handles.

Mod Section

Mod Type: clicking in the Mod 'Type' field produces a drop-down menu of 28 modulation presets (see 'Presets Listing for more information). A Mod 'Type' includes all useful combinations of LFO's and Envelopes routed to pitch, the 'Wave' parameter, Filter, and Amplitude.

Depth: controls the amount of the modulation.

Speed: controls the speed or rate for LFO modulations and the attack time for envelope modulations.

Clock Symbol: determines whether the LFO modulations are tempo-synced or free-running.

Fade: controls the delay time for LFO modulations, and controls the decay and release time for envelope modulations.

FX Section: same as all other FX sections.

MB-3 Electromagnetic Organ

The MB-3 is a Classic Tonewheel Organ with Leslie rotary speaker simulator.

Percussion On/Off: switches percussion section On/Off.

Short/Long: selects duration of percussion.

Loud/Soft: loud or soft percussion.

3rd/2nd: 3rd or 2nd harmonic for percussion.

Drawbars

Laid out as per a classic Tonewheel Organ:

16′	Fundamental	
5 1/3′	3rd Harmonic	1 Octave and a Fifth Higher
8′	2nd Harmonic	1 Octave Higher
4′	4th Harmonic	2 Octaves Higher
2 2/3′	6th Harmonic	2 Octaves and a Fifth Higher
2′	8th Harmonic	3 Octaves Higher
1 3/5′	10th Harmonic	3 Octaves and a major 3rd Higher
1 1/3′	12th Harmonic	3 Octaves and a Fifth Higher
1′	16th Harmonic	4 Octaves Higher

Click: sets the level of mechanical key on and off clicking.

Scanner Vibrato

Classic Tonewheel Organs had an additional chorus/vibrato section. The 'V' settings are vibrato settings while the 'C' settings are choruses.

V1 & C1: produces the lightest modulation.

V2 & C2: produces a deeper modulated sound.

V3 & C3: are the deepest and grittiest settings.

Drive: allows you to add tube overdrive before the rotary speaker.

Rotary On/Off: turns rotary speaker on/off.

Slow/ Fast: sets rotary speed.

NB: rotary speed can also controlled by the pitch wheel. Moving the pitch wheel up sets the rotary speed to fast while moving it down sets it to slow.

GM-4 General MIDI Module

The GM-4 is a 16-channel, multi-timbral GM sound player with 128 patches and a GM standard drum and percussion kit.

To select a channel for patch assignment or editing, click one of the 16 channel meters.

Channels 1-3 are muted by default to allow the other instruments in the Key Rig to play without interference from the GM Module. It is also useful to use the other three instruments of the key rig at times to replace GM instruments with "better" sounds in a GM arrangement.

M: GM channel mute for the selected channel.

S: GM channel solo for the selected channel.

Category: all GM standard patches are arranged into the GM standard categories. Clicking this field produces a drop-down menu of all categories.

Note: Although selecting a new category will also change the display of the instrument control (see below), a new sound will not be loaded until it is selected from the instrument control

Instrument: clicking this field produces a drop-down menu of all patches within a category for selection.

Chorus: applies a standard GM chorus to the selected channel.

Reverb: applies a standard GM reverb to the selected channel. This reverb is a send to the Master FX section of the Key Rig, allowing you to set any kind of effect and control the amount of all channels independently. It's important to note that if the MFX is set to an effect other than the default reverb, the GM-4 reverb effect will not be a standard GM reverb.

Volume: sets the volume for the channel selected.

Pan: controls the pan position for the selected channel.

Tone: the General MIDI tone control, which adjusts the brightness of the patch.

Contacting M-Audio

We at M-Audio have worked diligently to ensure that the Key Rig is an optimal piece of software for your studio. However, due to the wide variety of host computers and configurations, you may encounter unexpected behavior from your software. If you feel that Key Rig is not working properly, you can contact M-Audio Technical Support for assistance.

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Key Rig Patches

These files are FXBs and contain all patch and setup info for the whole key rig.

01 Oceania	07 Ghostly
02 Big Pad	08 Bubbly Pad
03 Electromagnetic Combi	09 Piano + Soft Strings
04 Belly Stack	10 Fuzzy Chords
05 Rotary Club	11 Nylon Pad
06 Swell Tines	Default

SP-1 Patches

01 Natural Grand	26 E Piano 1 Autopan
02 Natural Grand + Pad	27 E Piano 1 + Pad
03 Natural Grand + EP 1	28 E Piano 1 + FM
04 Natural Grand + EP 2	29 E Piano 1 + Wurli
05 Ambient Grand 1	30 Electric Piano 2
06 Bright Grand	31 E Piano 2 Chorus
07 Bright Grand + Pad	32 E Piano 2 Phaser
08 Bright Grand + FM	33 E Piano 2 Tremolo
09 Bright Grand + Wurli	34 E Piano 2 Autopan
10 Soft Grand	35 E Piano 2 + Pad
11 Soft Grand + Pad	36 E Piano 2 + E Piano 1
12 Soft Grand + EP1	37 E Piano 2 + Wurli
13 Soft Grand + EP2	38 Wurli
14 Soft Grand + FM	39 Wurli Chorus
15 Hard Grand	40 Wurli Phaser
16 Hard Grand + Pad	41 Wurli Tremolo
17 Hard Grand + Wurli	42 Wurli Autopan
18 Concert Grand	43 Wurli + Pad
19 Concert Grand + FM	44 FM E Piano
20 Upright Piano	45 FM Piano Chorus
21 Honky Tonk Piano	46 FM Piano Phaser
22 Electric Piano 1	47 FM Piano Tremolo
23 E Piano 1 Chorus	48 FM Piano Autopan
24 E Piano 1 Phaser	49 FM Piano + Pad
25 E Piano 1 Tremolo	50 FM Rotary Piano

MS-2 Patches

01 Ambivalence	41 Sweeper Pad	81 Crushed Square Bass
02 Tek Chords	42 Synth Strings	82 Simple Sine Pad
03 Saw Lead	43 Woodpecker	83 Fat Poly 1
04 Standard Bass	44 Sub Bass	84 Spooky Lead
05 Velo Digi Bells	45 Harmony Bells 1	85 Kino Bass
06 Uni Brass	46 Synth Horns	86 Complex Pad
07 Ambient Synth Strings	47 Hollow Pad	87 Syncerator
08 Schreikind	48 Hybrid Poly	88 Fat Octave Lead
09 Perky Noise	49 Tek Lead	89 Fuzza Fizzle 1
10 Metal Zap	50 Tune Out Pad	90 Tune In Pad
11 Swirly Bell Pad	51 Simple Poly	91 Ana Sweep Bells
12 Syncopated	52 Ambient Square Lead	92 5th Pulse Lead
13 Simple Square Lead	53 Fuzz Bass 2	93 Rubber Bass
14 Jupiter Bass	54 Bright Bells	94 Big Octa Sweep
15 Soft Bells	55 Soft Swell Horns	95 Basic Organ
16 Soft Horns	56 Glassy Bells	96 Ambient Saw Lead
17 Rich Sweep	57 FM Shiver	97 Buzz Bass
18 Perc + Sweep	58 Analog Bass	98 Simple Pulse Lead
19 Nasty Lead	59 Noise Perc	94 Big Octa Sweep
20 Rich Pad	60 Hi Mod Strings	95 Basic Organ
21 Pulsator	61 Digi 2,3	96 Ambient Saw Lead
22 Fat Poly 2	62 State Lead	97 Buzz Bass
23 Ghost Lead	63 Fuzz Bass	98 Simple Pulse Lead
24 Thumper Bass	64 Harmony Bells2	99 Dirty Bass 1
25 Analog Vibrabells	65 Synth Brass	
26 Brass Section	66 Soft Paddy Bell	
27 Random Bells Pad	67 Basic Poly	
28 Organish	68 Ultra Lead	
29 Mallet Bell	69 Noise Wind	
30 Pulsing Bells	70 Rich Sweeper	
31 Perky Pitched Noise	71 Belly Pol	
32 Fat Steam	72 Fat 5th Lead	
33 Sync Lead	73 Organ Bass	
34 Ultramoog Bass	74 Hollow Pad	
35 Metallic	75 Steely Pulse	
36 Ober It Brass	76 50s Lead	
37 Belly Pad	77 Thick Square Bass	
38 Fat + Fuzzy	78 Bright Pulse Sweep	
39 Meta Perk	79 Swoosh Pad	
40 Zap Metal	80 Uni Lead	

MS-2 Oscillator Presets

Rich Pad	Nasty Lead
Standard Pad	State Lead
Hollow Pad	Spooky Lead
Bell Sweep	Fat Oct Lead
Sine Pad	50s Lead
Octa Pad	Fat 5th
Rich Octa Pad	5th Pulse
Tri Pad	Sync Lead
Pulse Pad	Bumper Bass
Noise Pad	Jupiter Thump
Bell Pad	Rubber Bass
Combi Octa Pad	Pulse Bass
Tinkle Pad	Buzz Bass
Sparkle Pad	Dirty Bass 1
Tune In/Out	Dirty Bass 2
PWM String Pad	Fuzz Bass
Rich Poly	FuzzaFizz Bass
Hybrid Poly	Fuzzy Bass
PWM Poly	SH Bass
Square Poly	OrgaThump Bass
Fat Sync Poly	Square Bass
Belly Poly	Thump Bass
Organ Selector	Sub Bass
PWM Strings	UltraMoog Bass
Puff Poly	Cinema Bass
Digi Menu	Synth Horns
Variable Pulse	Synth Brass
Organish	Unison Bend
Octave Poly	Oberhype Brass
Hi Octave Poly	Brass Section
Variable Metal	Soft Brass 1
Fat Noise	Soft Brass 2
Bell Buzz	Soft Bells
Simple Poly	Bright Bells
Digi Aah	Harmonic Bells
Square Sync	Analog Chimes
Sine Plus	Hard Metal
Noizy Poly	Harmony Bell
Saw Solo	Noise Perc
Square Lead	Noise
Pulse Lead	
Sine Solo	
Trance Lead	
Drive Sweeper	
UltraMoog Lead	

MS-2 Filter Presets

Soft Pad	Reso Wow Bass
Bright Pad	Fuzz Bass
Gentle Sweep	Ultra Bass
Heavy Sweep	HP Reso Bass
Reso Sweep 1	Wow Brass
Reso Sweep 2	Gentle Brass
Simple Hi Pass	Bright Brass
Hi Pass Sweep	Soft Brass 1
Bright Poly	Soft Brass 2
Soft Poly	Bright Bells
Perc Poly	Soft Bells
Prc Sweep Poly	HP Bells
Attack + Swell	Glassy Bells
Attack + Swell	Paddy Bells
Sweeper Poly	Perc Bells
Reso Sweeper	Noise-Perc
Extreme Velo	Noise-Wind
Hi Pass Poly	
HP Zap Poly	
Bright Lead	
Soft Lead	
Reso Lead	
Sweep Lead	
Perc Lead	
Hi Pass Lead	
HP Sweep Lead	
Thump Bass	
Reso Bass	
Basic Bass	
Buzz Bass	

MS-2 Amp Presets

Velo Pad	No Velo Bass
Non Velo Pad	Perc Bass
Ambient Pad	Very Perc Bass
Short Poly	Simple Brass 1
Perc Poly	Simple Brass 2
Very Perc Poly	Hard Brass
Release Poly	Soft Brass
Attack + Swell	Velo Bells
Decay Poly	No Velo Bells
No Velo Lead	Paddy Bells
Velo Lead	Very Perc Bells
Attack + Swell	Noise-Perc
Very Perc Lead	Noise-Wind
Velo Bass	

MS-2 Modulation Presets

Vibrato. . . . . - LFO sine wave - pitch modulation
Filter Sweep. . . . . - LFO sine wave - cutoff
Reso Sweep . . . . - LFO sine wave - resonance
Autopan . . . . - LFO sine wave - panning
Tremolo . . . . - LFO sine wave - amplitude
Stereo Tremolo . . . . - LFO sine wave - amplitude and panning
Autowah . . . . - LFO sine wave - cutoff
Bend Up . . . . - Pitch bend up to note
Bend Down . . . . - Pitch bend down to note
Bend Up + Down . . . . - Pitch bend up then down to note
Wave Mod 1 . . . . - LFO sine wave-oscillator 1 "Wave" parameter
Wave Mod 2 . . . . - LFO sine wave-oscillator 2 "Wave" parameter
Wave Mod 1 + 2 . . . . - LFO sine wave-oscillator 1 + 2 'Wave' parameter
Wave Env 1 . . . . - Envelope- oscillator 1 "Wave" parameter
Wave Env 2 . . . . - Envelope- oscillator 2 "Wave" parameter
Wave Env 1 + 2 . . . . - Envelope- oscillator 1 + 2 "Wave" parameter
Volume Gater . . . . - LFO square wave - amplitude
Random Gater . . . . - LFO S + H wave - amplitude
Autotrigger . . . . - LFO sawtooth wave - amplitude
Repeater . . . . - LFO sawtooth wave - cutoff
Filter Gater. . . . . - LFO square wave - cutoff
Random Filter . . . . - LFO S + H wave - cutoff
Speed Up+Down . . . . - LFO speed up then slow down- cutoff
Triller . . . . - LFO square wave - pitch
Laser Gun . . . . - LFO sawtooth wave - pitch
Sci Fi. . . . . - LFO S + H wave - pitch
Melodic . . . . - LFO repeating S + H wave - pitch

MB-3 Patches

01 Perc Organ	26 Bright Blues
02 Classic B	27 Gimme Some Lovin'
03 Quite Righty So	28 Steve Winwood
04 Bright and Silky	29 Back To The Sixties
05 Smokey Blues	30 Full On Scream
06 Rock Solo	31 Gospel Organ
07 Child In Time	32 Capt'n Jack
08 Thick Bars	33 Jazz Leader
09 Jimmy Smith	34 Nice Organ
10 60s Solo Organ	35 Farfisa Flute
11 Jamaican Groove	36 Silky Rock
12 Deep Peep	37 JoeyDeF1
13 Oblivion Express	38 JoeyDeF2
14 Ballsy B	39 Screamy Silk
15 Gospel Standard	40 This Is Percussion!
16 Killer Bee	41 Sunday Morning
17 Blues Standard	42 Warm Tube
18 Bright Vibrations	43 Whistling 1
19 Fundamental Jazz	44 Very Pleasant
20 Fundamental Rock	45 Bagpipe Solo
21 Emerson's Knife	46 Vibraphone
22 Nifty Solo	47 Template Stereo
23 THE Cat	48 Template Mono
24 Funky Percussion	49 Bombarde 16' A
25 Whiter Shade Of Pale	50 Full Great with 16'

GM-4 Patches

001 Grand Piano	046 Pizzicato Strings	091 Pad 3 Polysynth
002 Bright Piano	047 Harp	092 Pad 4 Choir
003 Electric Grand	048 Timpani	093 Pad 5 Bowed Glass
004 Honky-tonk Piano	049 Strings Ensemble 1	094 Pad 6 Metallic
005 Electric Piano 1	050 Strings Ensemble 2	095 Pad 7 Halo
006 Electric Piano 2	051 Synth Strings 1	096 Pad 8 Sweep
007 Harpsichord	052 Synth Strings 2	097 FX 1 Rain
008 Clavinet	053 Choir Aahs	098 FX 2 Soundtrack
009 Celesta	054 Choir Oohs	099 FX 3 Crystal
010 Glockenspiel	055 Synth Vox	100 FX 4 Atmosphere
011 Music Box	056 Orchestra Hit	101 FX 5 Brightness
012 Vibraphone	057 Trumpet	102 FX 6 Goblins
013 Marimba	058 Trombone	103 FX 7 Echoes
014 Xylophone	059 Tuba	104 FX 8 Sci Fi
015 Tubular Bells	060 Muted Trumpet	105 Sitar
016 Dulcimer	061 French Horns	106 Banjo
017 Drawbar Organ	062 Brass 1	107 Shamisen
018 Percussive Organ	063 Synth Brass 1	108 Koto
019 Rock Organ	064 Synth Brass 2	109 Kalimba
020 Church Organ	065 Soprano Sax	110 Bagpipes
021 Reed Organ	066 Alto Sax	111 Fiddle
022 Accordion	067 Tenor Sax	112 Shanai
023 Harmonica	068 Baritone Sax	113 Tinkle Bell
024 Tango Accordion	069 Oboe	114 Agogo
025 Nylon Ac Guitar	070 English Horn	115 Steel Drums
026 Steel StringAc Guitar	071 Bassoon	116 Woodblock
027 Electric Jazz Guitar	072 Clarinet	117 Taiko
028 Clean Electric Guitar	073 Piccolo	118 Melodic Tom
029 Muted Electric Guitar	074 Flute	119 Synth Drum
030 Overdriven Guitar	075 Recorder	120 Reverse Cymbal
031 Distorted Guitar	076 Pan Flute	121 Guitar Fret Noise
032 Guitar Harmonics	077 Bottle Blow	122 Breath Noise
033 Acoustic Bass	078 Shakuhachi	123 Seashore
034 Finger Bass	079 Whistle	124 Bird Tweet
035 Pick Bass	080 Ocarina	125 Telephone
036 Fretless Bass	081 Square Lead	126 Helicopter
037 Slap Bass 1	082 Sawtooth Lead	127 Applause
038 Slap Bass 2	083 Calliope Lead	128 Gunshot
039 Synth Bass 1	084 Chiff Lead	GM Drums
040 Synth Bass 2	085 Charang	
041 Violin	086 Solo Voice	
042 Viola	087 Fifth Lead	
043 Cello	088 Bass + Lead	
044 Contrabass	089 Pad 1 New Age	
045 Tremolo Strings	090 Pad 2 Warm	

Effects Presets

The following effects are available for the MFX (master FX and the EB-8 Electric Bass).

	Parameter 1	Parameter 2
Reverb		
Chorus Reverb	Chorus Depth	Rev Time
Room Reverb 1	Size	Damping
Room Reverb 2	Size	Pre-Del
Hall Reverb 1	Size	Damping
Hall Reverb 2	Size	Pre-Del
Plate Reverb	Size	EQ
Gate Reverb	Size	EQ
Early Reflections	Size	EQ
Delay		
Delay	Delay	Feedback
Lofi Delay	Delay	Feedback
Stereo Delay	Delay	Feedback
Lofi Stereo Delay	Delay	Feedback
Ping Pong	Delay	Feedback
Lofi Ping Pong	Delay	Feedback
Gallop Echo	Delay	Feedback
Vox Tape Echo	Delay	Feedback
Chorus		
Chorus	Rate	Depth
Rich Chorus	Rate	Depth
Ensemble	Rate	Depth
Space Chorus	Rate	Depth
Quad Chorus	Rate	Depth
Stereo Width	Width	Delay
Tremolo		
Tremolo	Rate	Shape
Autopan	Rate	Shape
Rotary Speaker	Slow/Fast Rate	
Flanger		
Flanger	Rate	Depth
Deep Flanger	Rate	Depth
Death Flanger	Rate	Depth
Phaser		
Phaser	Rate	Depth
Deep Phaser	Rate	Depth
Wah Wah		
Auto Wah	Depth	Frequency
Mod Wah	Rate	Depth
Talkbox	Rate	Vowel
Pitch Shift		
Detune	Detune	Delay
Stereo Pitch	Left	Right
EQ		
2 Band EQ 1	Low Gain	Hi Gain
2 Band EQ 2	Low Gain	Hi Mid Gain
Sweep EQ Wide	Gain	Frequency
Sweep EQ Sharp	Gain	Frequency
Enhancer	Hi Tune	Lo Depth
Distortion		
Distortion	Drive	Tone
Amp Simulator	Drive	Amp Model
Feedback Amp	Drive	Amp Model
Overdrive	Drive	Shape
Bit Crusher 1	Bit Depth	Rate
Bit Crusher 2	Bit Depth	Rate
Dynamics		
Attack Compressor	Drive	Ratio
Squash Compressor	Drive	Ratio
Limiter	Drive	Attack