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You can read the recommendations in the user guide, the technical guide or the installation guide for M-AUDIO UC-33E. You'll find the answers to all your questions on the M-AUDIO UC-33E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual M-AUDIO UC-33E
User guide M-AUDIO UC-33E
Operating instructions M-AUDIO UC-33E
Instructions for use M-AUDIO UC-33E
Instruction manual M-AUDIO UC-33E

UC-33e



ENGLISH
User Guide



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Manual abstract:

..... *Edit Mode:* ..

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Default mode :

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..... *I Evolution UC-33 User Guide About The Advanced Guide In the UC-33 Advanced Guide we have made the assumption that you have been through the UC-33 Getting Started Guide which should have been supplied in printed form with your UC-33. If you do not have this guide, please contact your local distributor or download it from our website www.*

evolution.co.uk The Getting Started Guide should insure that you are now familiar with the basic operation of the UC-33 so that we now can focus on more in-depth features. First however, we need to explain some terminology we use throughout the guide. Terminology Edit Mode: Edit Mode describes the short period after a function button has been pressed during which the parameters of that function can be altered. The numeric keypad can be used to alter a parameter during this time. No data is sent out of the UC-33 when it is in Edit mode except for program and bank changes. LCD symbols shown in Edit mode will flash to show you that a particular parameter can be edited. If a number is part entered, and a new controller turned, that number will become the relevant parameter number for the new controller and the 3 second editing period will re-trigger. Default mode : Default Mode describes the state of the UC-33, when no function buttons have been pressed within the last 3 seconds.

In Default mode, the LCD will show the controller symbol, and the 2 digit display will show the last selected controller. The 3 digits display the currently assigned MIDI CC number.



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2 "On The Fly" Operations Sending Program Changes On The Fly You can at any one time send out a program change message to you sound card, sound module, instrument or whatever other device will receive this standard MIDI message. The program change will be sent on the global MIDI channel. 1. Press the PROGRAM button. 2. Type in the program number you wish to send, using the numerical keypad or the +/- keys. Example: The LCD display the PROG symbol in the left hand corner Indicating that the PROGRAM button has been pressed. The program value sent is 00 and its sent on the global MIDI channel 01.

You can also program the assignable buttons to send out fixed program messages to individual MIDI channels. For further information regarding this method, please go to pages XXX to XXX. Global MIDI channel: For more information, please go to page XXX. Sending Bank Changes On The Fly If your receiving device has more than 128 presets, you may be able to access the additional banks by sending out bank change LSM and MSB messages. 1.

Press the DATA LSB or DATA MSB button. 2. Type in the bank number you wish to send, using the numerical keypad or the +/- keys. Please check the documentation for your receiving device to ensure that it will respond to these messages. For more information about LSB and MSB, please see the chapter "Program and Bank Changes Explained" on page XXX in this manual.

4 Evolution UC-33e Sending Snap Shot Press the +/- buttons together to send a SNAP SHOT of the current UC-33 controller assignments and their values.

When you send a snapshot, the LCD will display the SNAPSHOT symbol. The data for an individual controller will be sent on which ever channel that controller has been as; Controllers Faders & Controllers Data Lsb (Press Twice) RPN LSB RPN LSB NRPN LSB NRPN LSB Volume LSB Pan LSB Tuning LSB Tuning LSB Mod rate Mod depth Feedback level Reverb send level Pitch shift LSB - Data Msb (Press Twice) RPN MSB RPN MSB NRPN MSB NRPN MSB Volume MSB Pan MSB Tuning MSB Tuning MSB Pitch shift MSB - * General MIDI SysEx messages - for details please see pages XXX & XXX. ** General MIDI 2 SysEx messages *** MMC Sysex messages, for details please see page XXX. **** This value cannot be typed in using the numerical keypad.

6 Evolution UC-33e Assignable MIDI Buttons Assign 0-119 120-127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147

148 149 150 151 152 255 Description Standard MIDI CC's Channel Mode Messages Pitch Bend Sensitivity Channel Fine Tune Channel Coarse Tune Channel Pressure RPN Coarse RPN Fine NRPN Coarse NRPN Fine Master Volume* Master Pan* Master Coarse Tune* Master Fine Tune* Chorus Mod rate** Chorus Mod Depth** Feedback** Send to Reverb** Pitch Bend Program/Bank Preset MIDI CC (On/Off) Note (On/Off) Note (On/Off Toggle) MMC Command*** Reverb Type ** Reverb Time ** Chorus Type ** Controller Off**** Program (Press Twice) Value Value Value Value Program MIDI CC Note Note Bank LSB (Press Twice) Toggle Value 2 Toggle Value 2 Sensitivity Value Tuning Amount Tuning Amount Pressure Amount RPN LSB RPN LSB NRPN LSB NRPN LSB Volume LSB Pan LSB Tuning LSB Tuning LSB Mod Rate Mod Depth Feedback Level Reverb Send Level Pitch Shift LSB Bank LSB Button Release Value Velocity Off Velocity Off Command Select Type Time Type Data MSB (Press Twice) Toggle Value 1 Toggle Value 1 RPN MSB RPN MSB NRPN MSB NRPN MSB Volume MSB Pan MSB Tuning MSB Tuning MSB Pitch shift MSB Bank MSB Button press value Velocity on Velocity on - * General MIDI SysEx messages - for details please see pages XXX & XXX. ** General MIDI 2 SysEx messages *** MMC Sysex messages, for details please see page XXX. **** This value cannot be typed in using the numerical keypad. Selecting A Controller For Editing Before you can assign a MIDI cc to one of the UC-33's controllers, you will need to select it for editing. There are 2 methods for doing this: 1.

Press CONTROL SELECT. The LCD will display the CONTROLLER symbol. The symbol will be flashing to indicate the controller settings can be altered. The 3-digit display will show the number of the currently selected controller, preceded by a 'C', or an 'F' if the controller is a fader. Type in the number of the controller using the numeric keypad, or the +/- buttons. 2. or Move a fader/rotary controller. Simply moving a fader/rotary controller will make it the currently selected controller, ready for editing. You can also select any of the 4 assignable buttons labelled with the transport bar icons by simply pressing them. It is however not possible to select any of the 10 numerical buttons by pressing them, since during edit mode, they are used to enter numerical values.

To program these buttons, please use the first method. Assigning MIDI CC's Once the controller you want to edit has been selected, you can change the assigned MIDI cc number in the following way: 1. 2. Press ASSIGN. The LCD will flash the CC symbol.

The 3 digit display will indicate the currently assigned MIDI cc number. Type in a new MIDI cc value using the numeric keypad or '+' and '-' buttons. The MIDI controller number you select will be assigned to the currently selected controller, shown by the number on the small, 2-digit display. Example: After pressing ASSIGN, the display shows the cc symbol and in this case displays that currently the MIDI cc 07 is assigned to fader/rotary controller number 33. 7 Assigning An Individual MIDI Channel 1.

2. Select the controller you want to edit as described earlier. Press CHANNEL. The LCD will display the CHAN symbol and the 3-digit display will show the current channel assignment of the selected controller, preceded by a 'c'. The small 2-digit display will show the currently selected controller for assignment. Type the MIDI channel number (01-16) you want the controller to send to, using the numeric keypad or the +/- keys. 3. If the controller is assigned to channel 00, it will transmit on the global channel. Changing The Global MIDI Channel The UC-33's global MIDI channel affects only the controllers that have the individual MIDI channel assigned to value 00, as described in the previous section. Here is how you change the global MIDI channel: 1.

Press GLOBAL CHANNEL (ASSIGN and CHANNEL together). The LCD will display the KEYBOARD and CHAN symbol. The 3-digit display will show the currently selected global channel, preceded by a 'c'. 2. Type in the MIDI channel number (01-16) using the numeric keypad or the +/- keys. Example: MIDI channel 01 is assigned as global MIDI channel. Using a combination of global MIDI channel and individually assigned MIDI channels can be a great way of navigating through your system. With multitimbral instruments such as Reason, it can be easier to just change the global MIDI channel on the UC-33 in order to jump to the next device, rather than operating the software. Setting Toggle Values For The Buttons The 14 assignable buttons can each be assigned to toggle between two values.



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You may for instance want to send out value 15 when you first press the button followed by value 74 when you press the button for a second time.

This is how you do it: 1. 2. 3. 4. Press the Function button labelled DATA MSB 2 times.

Type in 15 using the numerical keypad or the +/- keys. Press the Function button labelled DATA LSB 2 times. Type in 74 using the numerical keypad or the +/- keys. If you want the button to send the same value every time you press it, simply type in the same value both times. RPN/NRPN, GM 1+2 SysEx & Other

Messages As already described, the standard MIDI controller numbers range from 0 to 131.

We have extended the list of MIDI cc's that can be assigned to the controllers of the UC-33 to include RPN/NRPN, MMC and General MIDI 1&2 SysEx messages. These advanced messages are as easy to program as a regular MIDI cc instruction by entering values 132 to 152 when programming MIDI cc's. The charts on page XXX and XXX (or Appendix B) show you what number correspond to each message. To program the values required for these advanced messages, the UC-33 requires you to press the PROGRAM, DATA LSB and DATA MSB buttons twice respectively. Pressing only once will send the program and bank change instructions "on the fly" as described earlier. Lets look at a couple of examples to see how this works. Please refer to the chart in Appendix B so you get to grips with the principle: 8 Evolution UC-33e Assigning MMC Control To A Button 1. 2. 3. 4.

5. Select the button you want to control the MMC message. Press "ASSIGN" on the UC-33. Type in "149" using the numerical keypad. This is the number that corresponds to the MMC instruction, as per the chart on page XXX and XXX. Press "Channel" once. Type in "127", using the numerical keypad. This ensures that the message is set to all device ID numbers. For more information about this, please read "About SysEx Messages & Device ID" on page XXX. Press the "DATA LSB" button twice.

Enter a number from the chart on the next page to select the MMC message you want: 6. 7. Number 01 02 03 04 05 06 07 08 09 10 11 12 13 MMC Command STOP PLAY DEFERRED PLAY FAST FORWARD REWIND RECORD STROBE RECORD EXIT RECORD PAUSE PAUSE EJECT CHASE COMMAND ERROR RESET MMC RESET Assigning RPN/NRPN To A Fader/Rotary Controller Note: For a detailed description of RPN/NRPN data see section RPN/NRPN's Explained on page XXX. 1. 2.

3. 4. 5. Press Control select, and move the desired controller. Press control assign twice and while the display is flashing, enter controller 132 for RPN coarse, 133 for RPN fine, 134 for NRPN coarse or 135 for NRPN fine.

Press DATA MSB twice to assign the number for the RPN/NRPN MSB. Press DATA LSB twice to assign the number for RPN/NRPN LSB. Press CHANNEL ASSIGN to assign the MIDI channel the message should be sent on. You will find most data sheets for synths that make use of NRPN's will give the MSB and LSB values that you should enter into DATA MSB and DATA LSB banks (also see Appendix F). However, some manuals may only give the hex values. The UC-33 requires you to enter the decimal value. You can easily convert hexadecimal values to decimal using the windows calculator. Simply select Scientific mode, select hex and enter the hexadecimal value you need to convert. Press the Dec button to convert it to a decimal value. Enter the decimal value into the UC-33.

Alternatively, use the look up table in Appendix C. The following shows how to set a button to transmit a note on when pressed, and a note off when released. Assigning A Note To A Button 1. 2. 3. 4. 5. Press SELECT and press the "0" button. The display will show that you have selected controller 34. Press ASSIGN and enter '147' this is the MIDI CC number that corresponds to Note on/off mode, as shown in Appendix B.

Press DATA MSB twice and enter a value of '100'. This means when you press the button, a Note on message will be sent out with a velocity of 100. Press DATA LSB twice, and enter a value of '000'. This means when you release the button, a Note off message will be sent out. Press the PROGRAM button twice and enter '064'.

This will mean you are sending out MIDI note 64 or E4, each time you press the button. The MIDI note numbers are given in Appendix D. This button mode has many uses. You can use this mode to trigger samples, control lighting equipment, play keyboard notes and much more. Note: When you press the button in note mode, the LCD display will briefly show the note velocity.

9 About SysEx Messages & Device ID When transmitting SysEx messages, the individual control channel number does not define a transmit channel, but a device ID. This is made clear since when you press the CHANNEL button, the CC symbol will not be shown and there is no 'c' in the 3 digit display. Device ID's range between 00127. In most cases, you should set the device ID as 127. 127 means the SysEx message will be received by all devices. Please note that the device ID for a Sys Ex message assigned to a controller can not be changed using the Device ID buttons. These buttons are used for varying the global device ID of the UC33. Non-Volatile Memory The UC-33 uses non-volatile memory so that you can continue where you left off even after powering down and restarting. The current UC-33 controller and channel assignments are stored whether you have stored your setup to a memory locations or not. Also stored is Draw Bar mode (on/off), DATA LSB and DATA MSB data, global channel setting and last used memory preset.

Memory Dump Pressing the MEMORY DUMP buttons will send out a number of Sys Ex data packets that represent the 33 memories you have set up in your UC-33. This is a useful way of storing or backing up the contents of your memory presets externally. You can record the complete memory dump in to a standard sequencer. To recall the memory dump back to the UC-33, play the MIDI track containing the recorded memory dump to the UC-33, making sure that the UC-33 drivers are selected as output for that particular track. The current controller assignments are not affected by a memory dump, or a memory send to the UC-33. Once a memory dump has been sent to the UC-33, you will need to recall a preset to access the new memory settings. Assigning A Device ID To The UC-33 Pressing the "DEV. ID" buttons will allow you to assign a Device ID to the UC-33. @@@@ otherwise, we recommend you keep the device ID setting as 127. @@The 3-digit display represents the assigned Device ID.

@@@@@By default (I.e. @@@@The first 7 bits of this message are sent in a single byte known as the Bank LSB. The last 7 bits are specified by another byte known as the Bank MSB. The BANK LSB is the most commonly used This allows for 128 bank changes, and often there is no need to send a Bank MSB.

You will find almost all MIDI devices respond to the program change, but some that do not conform to the GM set of voices use the program change message for other purposes.



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Many VST instruments have adopted this approach, allowing you to use a program change to change the instrument patch. The FM7 by Native Instruments is a good example of this. Bank changes are more rarely used, although they do exist. Bank changes are useful in manufacturer's extensions to the MIDI specification, such as Roland's GS specification and Yamaha's XG specification.

Both of these require you to specify a Bank change, in order to access the extra voices and effects that these specifications provide. Sending Program, Bank LSB and Bank MSB data is made simple using the UC-33. Simply press the PROGRAM, DATA LSB or DATA MSB button and enter the program or bank change you wish to send. 11 RPN/NRPN's Explained Non-registered parameter numbers (NRPN's) are device specific messages that enable the control of synths via MIDI. The MIDI specification defines parameter numbers to allow scope for manufacturers to specify their own controllers. The more common of these have been registered by the MIDI Manufacturer's Association and are part of the MIDI specification (hence the term Registered Parameter Numbers RPN's). (See Appendix F.) MIDI controllers 98 and 99 represent the NRPN LSB and MSB respectively, while 100 and 101 represent the RPN LSB and MSB. This can be seen from the MIDI controllers list in Appendix D. To transmit an NRPN/RPN, these two controller messages are sent along with their user-specified values.

A further controller message and value needs to be sent to specify the (coarse or fine) value adjustment. This is specified by controller number 6 (Data entry) for coarse adjustments or number 38 for fine adjustments. A list of NRPN's will always be given in the User Manual of a device that receives NRPN messages. It is always necessary that the NRPN MSB and LSB are sent together. Both will be specified in the device's manual. You may find the manufacturer's have only specified the numbers in Hexadecimal format. In this case, use Appendix C to translate the value to Decimal. The UC-33 makes the process of transmitting NRPN's easy. All you need is to enter the appropriate NRPN LSB by pressing the LSB/DATA button twice, enter the NRPN MSB by pressing the MSB/DATA button twice, and as you move the UC-33 controller, an appropriate NRPN message will be sent out. Assign NRPN coarse to make big sweeps, or NRPN fine to make slight adjustments.

SysEx Explained System Exclusive (SysEx) messages were defined in the MIDI specification to allow individual devices to have individual control via MIDI. The format of SysEx messages allows for virtually any function to be performed via MIDI so long as the receiving device is able to translate the message, and act accordingly. This allows devices to send audio sample memory data, memory dumps, controller settings, and much more. It also allows the controllers of one device to be controlled by another. It is not possible to program your own specified SysEx message into the UC-33.

However, there are some useful SysEx messages pre-programmed into the UC-33, that can be accessed by assigning the appropriate MIDI CC to a controller (see Appendix B). It should be noted that a SysEx message is not transmitted on any specified channel. All SysEx messages contain a device ID, that is used to single out devices to respond to the SysEx message. All other devices are ignored. If you are using a SysEx message on the UC-33, the global channel is ignored.

When you press CHANNEL, instead of entering a channel for the controller, you will be enter a device ID instead. This is indicated by the fact that the CC symbol will not be showing. Device ID's run from 00 to 127. 127 is the default device number setting on the UC-33. This setting transmits the SysEx message to all devices. Although it is not possible to program the controllers of the UC-33 with your own SysEx messages, there are software applications that can receive a MIDI input signal and transmit a different, user specified message. You can program your SysEx messages into the translator software, then translate the incoming data from the UC-33 to your SysEx, depending on the controller you are using. 12 Evolution UC-33e 5 The Evolution Librarian Software About The Evolution Librarian Software The Evolution Librarian Software is a Windows PC librarian program developed for Evolution products. The program not only works with the MK425C/449C/461C keyboards but is also compatible with the Evolution UC-33e USB controller. That means you can use one librarian package for both your keyboard and your controller, if you own a UC-33e And even better, you can swap patches between Evolution products that are supported by the Librarian so you never have to create the same patch twice.

The librarian itself, allows you to send and receive the 10 patches to and from the MK-425C/449C/461C, load and save memory banks, view how individual patches have been programmed and drag and drop patches in order to create new combinations in the 10 memory locations. Installing The Evolution Librarian Software 1. 2. 3. Insert the Evolution Installer CD-ROM in to your CD-ROM drive. Click on "Librarian Installer" Follow the on-screen instructions to complete the installation process Once the installation has been completed, launch the program. The following is a screenshot of what you should be seeing on your monitor. Setting Up The Librarian Software Before you start using the Librarian, check that the MK-425C/449C/461C has been selected as input and output device. 1. 2.

Select MIDI Setup from the Options menu. Ensure the USB driver for you MK-425C/449C/461C is selected in the "Inputs" Column. If you are using native drivers this may be named "USB Audio Device". 1. In the "Outputs" column, select the USB driver for you MK-425C/449C/461C If you are using native drivers this may be named "USB Audio Device".

You should now be ready to use the Librarian software with you Evolution keyboard. Librarian Overview As you can see from the screenshot of the Librarian on page XXX, you can save, load, receive or send the complete content to and from either Bank columns. To transmit the complete content of your MK-425C/449C/461C to the librarian, simply press the "Receive" button on the Librarian software. This process can only be completed successfully if the USB drivers for your keyboard have been selected correctly, as described in the "Setting Up The Librarian Software" section. Once you have Received data from the keyboard, the memories are displayed in the column.

Organizing Presets Received From A Device You can name the memories as you like. To re-name a memory, double-click on the memory. You can then move memories around by dragging them to a new position, or using the copy buttons between the two windows. These buttons are defined below: Will copy the selected memory in Bank 2 to Bank 1. Will copy the selected memory in Bank 1 to Bank 2.



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Will copy all memories in Bank 2 to Bank 1. Will copy all the memories in Bank 1 to Bank 2. Will undo the last copy you made. Only the last copy is remembered. It's a good idea to decide which column is your master column, to avoid confusion and maybe losing hours of work.

13 Viewing The Contents Of A Memory Right-click on a memory to view the contents. Please note that it is not possible to edit the contents of a memory. The Sys Ex librarian will simply allow you to rearrange the order of memories, or copy memories between one dump and another. Saving A Setup Once you have named all your presets, and organized them in the desired order, click 'save' to save the content. Alternatively you can click on the File menu and select save to save the file with the previously assigned file name, or save as to assign the memory dump a new file name. The shortcut key to save Bank 1 is CTRL+S. Make sure you give the file a name that allows you to quickly identify your collection of setups. Loading A Setup To load a memory setup file back in to the librarian, click on the 'Load' button and select the required file. The loaded preset setups will appear in the Bank Window. You can then either send it directly to the Evolution device by clicking send, or edit it.

Alternatively, select Open from the File menu. The shortcut key for loading is CTRL+O Future Development Of The Librarian We strongly recommend you register your ownership of the Evolution Librarian if you would like to be kept informed about future development. As you can see from the version number, the software is at an early version 1.0 stage and we will continue to work on enhancements for the software. To register your copy, please visit www.evolution.co.uk/register 14 Evolution UC-33e 6 Technical and Warranty Info Technical Info Caution: The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the instruction manual. In case the function could not resume, please use the product in other location.

@@@@@@@ However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: <<< Re-orient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. ASIO is a trademark of Steinberg Soft und Hardware GmbH. VST is a trademark of Steinberg Soft und Hardware GmbH Warranty Warranty Terms M-Audio warrants products to be free from defects in materials and workmanship, under normal use and provided that the product is owned by the original, registered user. Visit www.m-audio.com/warranty for terms and limitations applying to your specific product.

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. 16 Evolution UC-33e 8 Appendix A-G & Factory Preset List Appendix A - MIDI IMPLEMENTATION CHART Function Transmitted Received Remarks 17
Appendix B - Assignable MIDI CC's on the UC-33 B1 - The Faders and rotary Controllers: MIDI CC 0-119 120-127 128 129 130 131 132 133 134 135 136
137 138 139 140 141 142 143 144 255 Description Data Lsb (Press Twice) Data Msb (Press Twice) * Sysex messages - for details please see pages XXX &
XXX. ** MMC Sysex messages, for details please see page XXX. *** This value cannot be typed in using the numerical keypad. Type in 144 and then press
the + button to set this value.

B2-The Buttons: MIDI CC 0-119 120-127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 255
Description Program (Press Twice) Data Lsb (Press Twice) Data Msb (Press Twice) * Sysex messages - for details please see pages XXX & XXX.



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*** MMC Sysex messages, for details please see page XXX. *** This value cannot be typed in using the numerical keypad. Type in 144 and then press the + button to set this value. 18 Evolution UC-33e Appendix C - Hexadecimal Conversion Chart Hexadecimal to Decimal Conversion Chart Hexadecimal Value 0 1 2 3 4 5 6 7 8 9 0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F 20 21 22 23 24 25 26 27 28 29 2A Decimal Value 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 Hexadecimal Value 2B 2C 2D 2E 2F 30 31 32 33 34 35 36 37 38 39 3A 3B 3C 3D 3E 3F 40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 Hexadecimal Value 56 57 58 59 5A 5B 5C 5D 5E 5F 60 61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F 70 71 72 73 74 75 76 77 78 79 7A 7B 7C 7D 7E 7F Decimal Value 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 19 Appendix D - Useful MIDI data General MIDI Instruments Piano0 A Acoustic Grand Piano 1 Bright Acoustic Piano 2 Electric grand Piano 3 Honky Tonk Piano 4 Electric Piano 1 5 Electric Piano 2 6 Harpsichord 7 Clavinet Chromatic Percussion 8 Celesta 9 Glockenspiel 10 Music Box 11 Vibraphone 12 Marimba 13 Xylophone 14 Tubular bells 15 Dulcimer Organ 16 Drawbar Organ 17 Percussive Organ 18 Rock Organ 19 Church Organ 20 Reed Organ 21 Accordion 22 Harmonica 23 Tango Accordion Guitar 24 Nylon Acoustic 25 Steel Acoustic 26 Jazz Electric 27 Clean Electric 28 Muted Electric 29 Overdrive 30 Distorted 31 Harmonics Bass 32 Acoustic Bass 33 Fingerted Bass 34 Electric Picked Bass 35 Fretless Bass 36 Slap Bass 1 37 Slap Bass 2 38 Syn Bass 1 39 Syn Bass 2 Strings/Orchestra 40 Violin 41 Viola 42 Cello 43 Contrabass 44 Tremolo Strings 45 Pizzicato Strings 46 Orchestral Harp 47 Timpani Ensemble 48 String Ensemble 1 49 String Ensemble 2 50 Syn Strings 1 51 Syn Strings 2 52 Choir Aahs 53 Voice Oohs 54 Syn Choir 55 Orchestral Hit Brass 56 Trumpet 57 Trombone 58 Tuba 59 Muted Trumpet 60 French Horn 61 Brass Section 61 Syn Brass 1 62 Syn Brass 2 Reed 64 Soprano Sax 65 Alto Sax 66 Tenor Sax 67 Baritone Sax 68 Oboe 69 English Horn 70 Bassoon 71 Clarinet Pipe 72 Piccolo 73 Flute 74 Recorder 75 Pan Flute 76 Bottle Blow 77 Shakuhachi 78 Whistle 79 Ocarina Synth Lead 80 Syn Square Wave 81 Syn Sawtooth Wave 82 Syn Calliope 83 Syn Chiff 84 Syn Charang 85 Syn Voice 86 Syn Sawtooth Wave 87 Syn Brass & Lead Synth Pad 88 New Age Syn Pad 89 Warm Syn Pad 90 Polysynth Syn Pad 91 Choir Syn Pad 92 Bowed Syn Pad 93 Metal Syn Pad 94 Halo Syn Pad 95 Sweep Syn Pad Synth Effects 96 SFX Rain 97 SFX Soundtrack 98 SFX Crystal 99 SFX Atmosphere 100 SFX Brightness 101 SFX Goblins 102 SFX Echoes 103 SFX Sci-Fi Ethnic 104 Sitar 105 Banjo 106 Shamisen 107 Koto 108 Kalimba 109 Bag Pipe 110 Fiddle 111 Shanai Percussive 112 Tinkle Bell 113 Agogo 114 Steel Drums 115 Woodblock 116 Taiko Drum 117 Melodic Tom 118 Syn Drum 119 Reverse Cymbal Sound Effects 120 Guitar Fret Noise 121 Breath Noise 122 Seashore 123 Bird Tweet 124 Telephone Ring 125 Helicopter 126 Applause 127 Gun Shot 20 Evolution UC-33e MIDI Note Numbers Octave (n) Note Numbers C#n -1 0 1 2 3 4 5 6 7 8 9 1 13 25 37 49 61 73 85 97 109 121 Dn 2 14 26 38 50 62 74 86 98 110 122 D#n 3 15 27 39 51 63 75 87 99 111 123 En 4 16 28 40 52 64 76 88 100 112 124 Fn 5 17 29 41 53 65 77 89 101 113 125 F#n 6 18 30 42 54 66 78 90 102 114 126 Gn 7 19 31 43 55 67 79 91 103 115 127 G#n 8 20 32 44 56 68 80 92 104 116 An 9 21 33 45 57 69 81 93 105 117 A#n 10 22 34 46 58 70 82 94 106 118 Bn 11 23 35 47 59 71 83 95 107 119 Appendix F - Roland GS and Yamaha XG NRPN Support to Roland JV/XP NRPN MSB CC99 01 01 01 01 01 01 01 01 *14 *15 *16 *17 18 *19 1A 1C 1D 1E %1F NRPN LSB CC98 08 09 0A 20 21 63 64 66 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F Data MSB CC06 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F Data LSB CC38 n/a (-64 - 0 - +63) Vibrato Rate (relative change) n/a (-64 - 0 - +63) Vibrato Depth (relative change) n/a (-64 - 0 - +63) Vibrato Delay (relative change) n/a (-64 - 0 - +63) Filter Cutoff Freq. (relative change) n/a (-64 - 0 - +63) Filter Resonance (relative change) n/a (-64 - 0 - +63) EG (TVF&TVA) Attack Time (relative change) n/a (-64 - 0 - +63) EG (TVF&TVA) Decay Time (relative change) n/a (-64 - 0 - +63) EG (TVF&TVA) Release Time (relative change) n/a (-64 - 0 - +63) Drum Filter Cutoff Freq. (relative change) n/a (-64 - 0 - +63) Drum Filter Resonance (relative change) n/a (-64 - 0 - +63) Drum EG Attack Rate (relative change) n/a (-64 - 0 - +63) Drum EG Decay Rate (relative change) n/a (-64 - 0 - +63) Drum Instrument Pitch Coarse (relative change) n/a (-64 - 0 - +63) Drum Instrument Pitch Fine (relative change) n/a (0 to Max) Drum Instrument Level (absolute change) n/a (Random, L>C>R) Drum Instrument Panpot (absolute change) n/a (0 to Max) Drum Instrument Reverb Send Level (absolute change) n/a (0 to Max) Drum Instrument Chorus Send Level (absolute change) n/a (0 to Max) Drum Instrument Variation Send Level (absolute change) * added by Yamaha XG; % changed from Delay to Variation by Yamaha XG Appendix G - General MIDI Reverb and Chorus Types Reverb Types 0: Small Room 1: Medium Room 2: Large Room 3: Medium Hall 4: Large Hall 8: Plate Chorus Types 0: Chorus 1 1: Chorus 2 2: Chorus 3 3: Chorus 4 4: FB Chorus 5: Flanger 21 Appendix H - UC-33 Preset Chart * Requires setup or song file. Please check the Evolution Installer CD-ROM/Application Files Factory Preset 01 Cubase multi-channel & channel strip(1-8) * 02 Native Instruments B4 03 Native Instruments Pro-53 04 Reason Mixer 05 Reason Malstrom 06 Reason Subtractor 07 Reason NN-19 08 Reason Dr. Rex 09 Reason ReDrum 10 Cubase multi-channel mixing (9-16) * 11 Logic channel strip* 12 Sound Studio Pro II 1-8 mixer 13 Sound Studio Pro II 9-16 mixer 14 Sonar preset* 15 Steinberg Model-E 16 Steinberg Halion 17 Waldorf Attack 18 Waldorf PPG Wave2V 19 Native Instruments FM7 * 20 Rebirth - Master controls and Synths 21 Rebirth drum Modules 22 AAS Lounge Lizard 23 CM DS-404 24 CM SR-202 25 CM 101 26 TC-Works Mercury-1 27 Big Tick Audio Rainbow Synth 28 GS/XG/GM2 Synth control 29 GS/XG drum mixer 30 SoundBlaster cards synth control 31 User preset1 Channel mixer (1-8) 32 User Preset2 Channel Mixer (9-16) 33 User Preset3 Undefined controllers to global channel * Requires setup or song file. Please check the Evolution Installer CD-ROM/Application Files 060123_UC33_UG_EN01 22 .*



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