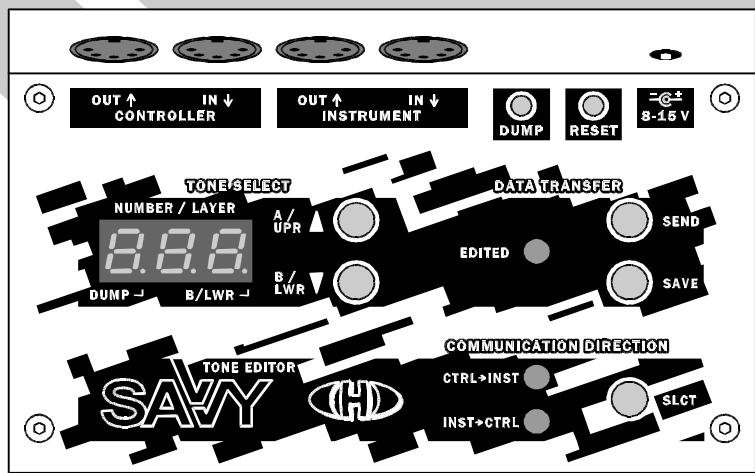


SAVVY

Tone Parameters Editor & Controller



Manual Supplement

Kawai K3, K3M

OS 007 ver. 2.0



© 2019 CHD Elektroservis

**Contents:**

1	FEATURES.....	3
2	PREPARE THE INSTRUMENT.....	3
3	INSTRUMENT PARAMETERS – MIDI CC ASSIGNMENT	5
3.1	MODIFIERS.....	6
3.2	MACROS.....	7
3.3	RANDOM FUNCTIONS.....	8
3.4	USER WAVEFORM FUNCTIONS.....	8
4	SYSTEM PARAMETERS	13
4.1	GLOBAL PARAMETERS	13
4.1.1	MIDI Channel	13
4.1.2	Use Bank Select (CC #32).....	13
4.1.3	MIDI Errors Auto Reset	13
4.1.4	Remember Last Tone.....	14
4.1.5	Tone Number Format.....	14
4.1.6	Display Brightness.....	14
4.2	INST → CTRL DATA TRANSFER PARAMETERS.....	14
4.2.1	Select Device ID for Bulk Dump.....	14
4.2.2	Send All CCs (Tone Change).....	14
4.2.3	Send One CC (Parameter Change)	14
4.2.4	Send Manual Tone Slct as Pgm Chng.....	14
4.3	CTRL → INST DATA TRANSFER PARAMETERS.....	15
4.3.1	Cache Modifications in Edit Buffer.....	15
4.3.2	Cache Macro Settings in Edit Buffer.....	15
4.3.3	Cache Random Setting in Edit Buffer.....	15
4.3.4	Accept Pgm Chng from Ctrl.....	15
5	SYSEX MESSAGES GENERATOR.....	16
5.1	SYSTEM PARAMETERS WINDOW	16
5.1.1	Change the system parameters.....	16
5.1.2	Request the contents of system memory.....	17
5.1.3	Initialize data.....	17
5.1.4	Other functions	17
5.2	INSTRUMENT PARAMETERS WINDOW	18
5.2.1	Create / adjust the MIDI CC map	18
5.2.2	Request MIDI CC map.....	18
5.2.3	Initialize MIDI CC map.....	19
5.2.4	Other functions	19
5.3	TONE DATA WINDOW.....	20
5.3.1	Create single user tone.....	20
5.3.2	Request single tone.....	20
5.3.3	Initialize single tone.....	21
5.3.4	Other functions	21
6	RECOMMENDED MIDI SOFTWARE.....	22
6.1	POCKET MIDI.....	22
6.1.1	Setting up the computer and software.....	22
6.1.2	Send the text SysEx message to SAVVY.....	22
6.1.3	Request the SysEx data from SAVVY	23
6.2	ALTERNATIVE SOFTWARE SOLUTIONS.....	23
7	TONE MEMORY ORGANIZER.....	24

1 FEATURES

Supported instruments: Kawai K3, K3M.

Number of tone memories: 384 (three memory banks, each tone memory can hold its own user additive waveform).

Number of waveforms memories: 128 new pre-defined additive waveforms.

Individual tone parameters (37x): all Kawai K3 tone parameters assigned to MIDI CCs.

Modifiers (3x): MOD RATE, MOD DEPTH, ENV TIME

Macro (5x): ENV ATTACK TIME, ENV DECAY TIME, ENV SUSTAIN LEVEL, ENV RELEASE TIME, SET USER WAVE

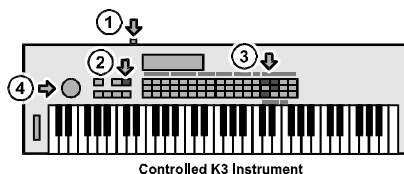
Random functions (13x): OSC – Light, OSC – Full, WAVE Harmonics 1-32, WAVE Harmonics 1-64, WAVE Harmonics 1-96, WAVE Harmonics 1-128, VCF – Light, VCF – Full, VCA, ENV-VCF, ENV-VCA, FX, ALL

Waveform functions¹ (7x): pre-defined user waveforms selector, increment / decrement and slope intensity of separate for odd and even harmonics, harmonics numbers inversion function, original / edited waveform compare function.

Enhanced features: Each of tones can be individually named. The name is stored in SAVVY's memory as a tone data.²

2 PREPARE THE INSTRUMENT

To use SAVVY with your Kawai K3, you have to set some MIDI functions:



- 1) Set **PROTECT** switch on the instrument rear panel to "OFF" position ①.
- 2) Press the **EDIT - MASTER** button on the instrument front panel ②. Button LED lights and display shows the selected parameter number and its value.
- 3) Press the **[40] RECEIVE CHANNEL** button (MIDI section of MASTER switches ③).
- 4) Set "1" value³ of the parameter by **INCREMENT** dial ④.
- 5) Press the **[43] SEND CHANNEL** button (MIDI section of MASTER switches ③).
- 6) Set "1" value⁴ of the parameter by **INCREMENT** dial ④.
- 7) Press the **[42] FUNCTION** button (MIDI section of MASTER switches ③).
- 8) Set "5" value⁵ of the parameter by **INCREMENT** dial ④.

¹ Please keep in mind that the user waveforms are static waves and can not be controlled in real time as on later Kawai K5/K5000 synthesizers. The K3's internal CPU has to calculate the resulting waveform from entered values first. There are short audible lags when using the waveform functions thus. Nevertheless we optimized the firmware to prevent the operation from any unwanted MIDI errors or instrument crashes.

² The tone name is not shown on the instrument's or SAVVY's display but it is viewable and editable with help of support software (see chapter 7).

³ SAVVY uses MIDI channel Nr. 1 as a default for data sending after factory reset (see System Parameters table). It can be changed by the user anytime. All other MIDI commands for the Patch Preset control must be sent on the same MIDI channel.

⁴ SAVVY uses MIDI channel Nr. 1 as a default for data receiving after factory reset (see System Parameters table). It can be changed by the user anytime. All other MIDI commands for the Patch Preset control must be sent on the same MIDI channel.

⁵ I.e. receiving of SysEx messages is enabled. Note that there is an error in the K3 user manual (value 6 is listed incorrectly for this function).

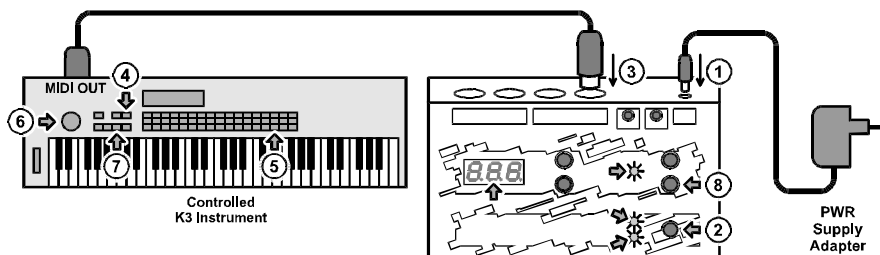
- 9) Press the **[44] EXCLUSIVE I** button (MIDI section of MASTER switches ③).
- 10) Set "1" value⁶ of the parameter by **INCREMENT** dial ④.
- 11) Press the **MASTER** button again ②. Button LED turns off.

To save the above settings:

- 1) **RECEIVE CHANNEL, SEND CHANNEL** and **FUNCTION** MIDI parameters remain stored in instrument's memory when set as described above.
- 2) **EXCLUSIVE I** MIDI parameter is automatically set to "0" after the K3 is turned off. The above MIDI setting has to be repeated every time you switch the K3 on.

SAVVY always uses patch / tone Nr. 1 and user waveform data from instrument's internal memory. They will be rewritten during the SAVVY operation! It is recommended to copy the patch / tone Nr. 1 to another location (or to cartridge) and to save the user waveform data in SAVVY's memory (or in cartridge) before the first use of SAVVY with your instrument thus.

To save your waveform data from instrument's internal memory to SAVVY:



- 1) Do not connect the MIDI cables from SAVVY to Kawai K3!
- 2) Connect power supply adapter to SAVVY ① and wait until reset sequence is complete (a tone number is displayed and **CTRL → INST** green LED lights).
- 3) Press **COMMUNICATION DIRECTION SLCT** button ② (**CTRL → INST** green LED goes off and **INST → CTRL** yellow LED lights).
- 4) Connect the instrument and SAVVY with MIDI cable ③ now. Connecting MIDI-OUT of the instrument and INSTRUMENT-MIDI-IN of SAVVY is required. No other cable is necessary.
- 5) Press the **EDIT - MASTER** button on the instrument's panel ④. Button LED lights and instrument's display shows selected parameter number and its value.
- 6) Press the **[45] EXCLUSIVE II** button ⑤ (MIDI section of MASTER switches of the instrument). Display shows "45" parameter number and "0" value.
- 7) Set "1" value of the parameter by **INCREMENT** dial ⑥.
- 8) Press the **PROGRAM - INTERNAL** button ⑦⁷. The instrument sends the waveform data and **EDITED** red LED on SAVVY confirms receiving of the data.
- 9) Press the **MASTER** button again ④. Button LED turns off.
- 10) Now you can save the received waveform data in a SAVVY's tone memory by pushing the **SAVE** button ⑧ (as described in SAVVY Owner's manual).

Remark: This procedure should be done every time you have edited your own user additive waveform directly from your K3 instrument panel.

⁶ I.e. transmitting of SysEx messages is enabled.

⁷ It is also possible to press the **PROGRAM - CARTRIDGE** button for saving of your user waveform from cartridge to SAVVY.

3 INSTRUMENT PARAMETERS – MIDI CC ASSIGNMENT

- **Individual tone parameters** - MIDI CCs assigned to individual tone parameters control.
- **Modifiers** - MIDI CCs assigned to tone modifications controls (+/- offsets), that affect more tone parameters simultaneously accordingly to the fixed algorithms. In the middle position (i.e. value 64), the tone is not affected
- **Macros** – MIDI CCs assigned to macro functions that simplify control of more tone parameters simultaneously (e.g simplified ADSR envelope, etc.).
- **Random functions** - MIDI CC assigned to intelligent random functions set random values of selected tone parameters.
- **User waveform functions** – MIDI CC assigned to User Wave Selector selects the new pre-defined waveforms and waveform functions modifying the content of odd and even harmonics.

All changes of individual tone parameters, Modifiers and results of Macro, Random and Waveform functions can be saved in SAVVY's tone memories.

The following table shows factory assigned MIDI CCs numbers, however the assigned MIDI CCs are user definable⁸ and can be changed by user.

INDIVIDUAL TONE PARAMETERS			
Parameter Name	CC Nr.	Parameter Name	CC Nr.
OSC-1 WAVE SELECT	20	VCA DECAY	81
OSC-1 RANGE	18	VCA SUSTAIN	82
OSC-2 WAVE SELECT	27	VCA RELEASE	83
OSC-2 COARSE	25	LFO SHAPE	12
OSC-2 FINE	26	LFO SPEED	13
OSC BALANCE	58	LFO DELAY	14
PORTAMENTO SPEED	37	LFO OSC	21
PITCH BEND RANGE	9	LFO VCF	53
AUTO BEND	47	LFO VCA	69
LOW CUT (HPF)	49	VELOCITY VCF	52
VCF CUTOFF	50	VELOCITY VCA	70
VCF RESONANCE	51	PRESURE OSC-BALANCE	41
VCF ENV	54	PRESURE VCF	56
VCF ATTACK	74	PRESURE VCA	72
VCF DECAY	75	PRESURE LFO-OSC	22
VCF SUSTAIN	76	KCV VCF	55
VCF RELEASE	77	KCV VCA	84
VCA LEVEL	71	CHORUS	66
VCA ATTACK	80		
MODIFIERS			
Modifier Name	CC Nr.	Modifier Name	CC Nr.
MOD RATE	95	ENV TIME	91
MOD DEPTH	94		

⁸ To see how to change the assigned MIDI CCs or make new user map see chapter 5.

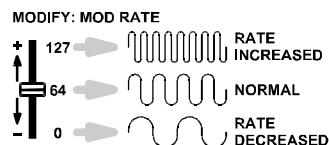


MACROS			
Macro Name	CC Nr.	Macro Name	CC Nr.
ENV ATTACK TIME	110	ENV RELEASE TIME	113
ENV DECAY TIME	111	SET USER WAVE	117
ENV SUSTAIN LEVEL	112		
RANDOM FUNCTIONS			
Random Setting Name	CC Nr.		
DCO-1,2 / SYNC / VCF / VCA / ENV / LFO / FX	3		
USER WAVEFORM FUNCTIONS			
Function Name	CC Nr.	Function Name	CC Nr.
USER WAVE SELECTOR	46	SLOPE EVEN HARMONICS	109
INCREMENT / DECREMENT ODD HARMONICS	106	INVERT HARMONICS	118
INCREMENT / DECREMENT EVEN HARMONICS	107	COMPARE	119
SLOPE ODD HARMONICS	108		

3.1 MODIFIERS

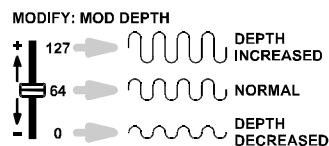
MOD RATE

MOD RATE is a new performance parameter. This modifier changes the rate of the **vibrato**, **growl**, **LFO delay** or **PWM** effects.



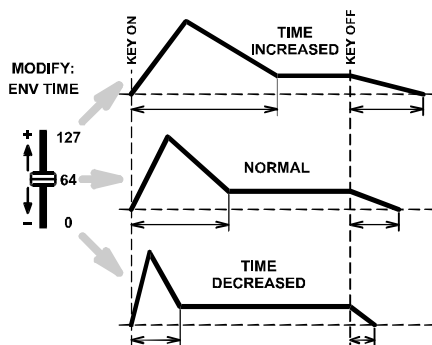
MOD DEPTH

MOD DEPTH is a new performance parameter. This modifier changes the depth of the **vibrato** or **growl** effects.



ENV TIME

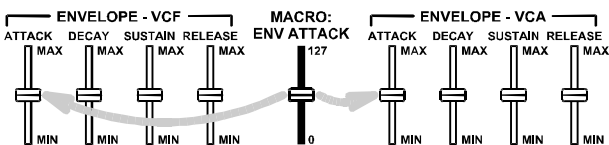
ENV TIME is a new performance parameter. This modifier offsets all **time segments** of both VCF and VCA **Envelope generators** with single MIDI CC, while preserving all other tone settings (see picture below). The original tone color can be used with various lengths of envelope from short percussive to long evolving pad.



3.2 MACROS

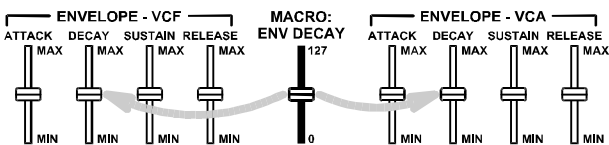
ENV ATTACK TIME

Joint control of **both** VCF and VCA envelopes **Attack times** with a single MIDI CC.



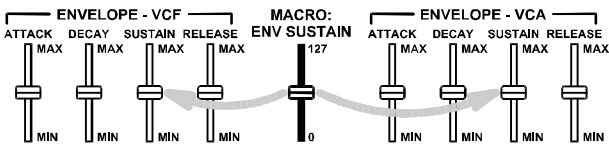
ENV DECAY TIME

Joint control of **both** VCF and VCA envelopes **Decay times** with a single MIDI CC.



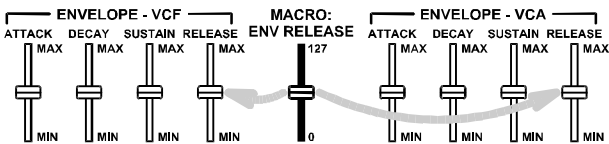
ENV SUSTAIN LEVEL

Joint control of **both** VCF and VCA envelopes **Sustain levels** with a single MIDI CC.



ENV RELEASE TIME

Joint control of **both** VCF and VCA envelopes **Release times** with a single MIDI CC.



SET USER WAVE

Sets **both** oscillators waveforms to **user additive wave**⁹. To do so, use any CC value in the range of 64 –127. Values 0 to 63 have no effect.

It is recommended to assign push button on your hardware MIDI controller to this MIDI CC.

⁹ I.e. both OSC-1 WAVE SELECT and OSC-2 WAVE SELECT parameters are set to value 32.

3.3 RANDOM FUNCTIONS

The random functions or “Intelligent random generator” use MIDI CC #3¹⁰. There are different random algorithms available as described in the table below:

VALUES OF CC ASSIGNED TO RANDOM SETTING FUNCTION CONTROL		
CC Value	Function	Description
0 ~ 7	n/a	Not used
8 ~ 15	OSC Light	Limited number and range of OSC,1 and OSC-2 parameters without pitch modulation effects for more predictable results.
16 ~ 23	OSC Full	All available OSC,1 and OSC-2 parameters in full range, including modulation for more excentric tones and sound effect.
24 ~ 31	WAVE 1-32 th	Random setting of harmonics numbers in the limited range from 1 to 32 (both harmonics Nr. and intensity)
32 ~ 39	WAVE 1-64 th	Random setting of harmonics numbers in the limited range from 1 to 64 (both harmonics Nr. and intensity)
40 ~ 47	WAVE 1-96 th	Random setting of harmonics numbers in the limited range from 1 to 96 (both harmonics Nr. and intensity)
48 ~ 55	WAVE 1-128 th	Random setting of harmonics numbers in the full available range ¹¹ from 1 to 128 (both harmonics Nr. and intensity)
56 ~ 63	VCF – Light	VCF limited range random (both HPF and LPF cutoff and resonance settings)
64 ~ 71	VCF – Full	All available VCF paramateres in full range (both HPF and LPF, including modulations)
72 ~ 79	VCA	VCA modulation parameters random
80 ~ 87	ENV – VCF	VCF envelope (all parameters) random
88 ~ 95	ENV – VCA	VCA envelope (all parameters) random
96 ~ 103	n/a	Not used
104 ~ 111	FX	LFO and CHORUS random
112 ~ 119	n/a	Not used
120 ~ 127	ALL	Full tone random for sound experimenting.

The “WAVE” random functions generate random number of harmonics and also their random intensity values. The range of randomly generated harmonics is defined by the CC value – harmonics from 1st to 32th for value 24 ~ 31 up to full harmonicsrange from 1st to 128th for value 48 ~ 55 (see table above).

It is recommended to assign push buttons on your hardware MIDI controller with the different MIDI CC #3 values as described in the table above.

3.4 USER WAVEFORM FUNCTIONS

USER WAVE SELECTOR

The original Kawai K3 instrument can create and hold only one user additive waveform in its memory. SAVVY allows to select any of 128 newly pre-defined additive waveforms as the user waveform (user waveform Nr. 32 must be selected for OSC-1 WAVESHAPE or OSC-2 WAVESHAPE or both tone parameters), MIDI CC #9¹² selects a pre-defined additive waveform from SAVVY’s memory. For the full list of new pre-defined waveforms see the table below.

¹⁰ Factory preset value. To see how to change number of assigned MIDI CC see chapter 5.2.

¹¹ Please keep in mind that the higher harmonics are less audible in the resulting waveforms.

¹² Factory preset value. To see how to change number of assigned MIDI CC see chapter 5.2.



PRE-DEFINED WAVEFORMS

CC Value	Wave		CC Value	Wave		CC Value	Wave	
	Name	Shape		Name	Shape		Name	Shape
0	Octaves		17	Organ 4		34	Analog Brass	
1	Honky Tonk		18	Jazz Organ 1		35	Cheesy Brass	
2	El. Piano (dist.)		19	Jazz Organ 2		36	Brass	
3	FM El. Piano 1		20	Jazz Organ 3		37	Digi Brass	
4	FM El. Piano 2		21	Church Organ 1		38	Orchestra	
5	FM El. Piano 3		22	Church Organ 2		39	FM Brass	
6	El. Piano (deep)		23	Church Organ 3		40	Guitar 1	
7	Acc Piano		24	Digi Organ		41	Guitar 2	
8	Simple Piano		25	Glass Organ 1		42	Guitar 3	
9	Toy Piano		26	Glass Organ 2		43	Guitar 4	
10	FM Rhodes		27	Street Organ 1		44	El. Guitar	
11	Digi Piano		28	Street Organ 2		45	Ac. Bass	
12	Clavi		29	Accordion		46	El. Bass	
13	Harpsichord		30	Strings 1		47	FM Bass	
14	Organ 1		31	Strings 2		48	Digi Bass	
15	Organ 2		32	Cheesy Strings		49	Syn Bass	
16	Organ 3		33	Analog String		50	Glass	



PRE-DEFINED WAVEFORMS - CONTINUE

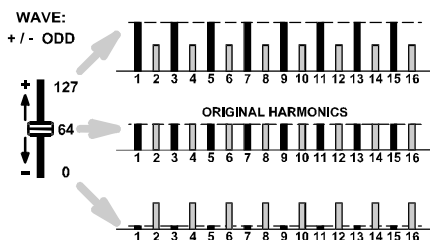
CC Value	Wave		CC Value	Wave		CC Value	Wave	
	Name	Shape		Name	Shape		Name	Shape
51	Glass Harp		68	Glass Flute 2		85	Saw 1	
52	Voice 1		69	Pan Flute		86	Saw 2	
53	Voice 2		70	Ocarine		87	Saw 3	
54	Voice 3		71	Sax		88	Digi Saw	
55	Voice 4		72	Clarinet		89	Hi Saw 1	
56	Crystal Voice 1		73	Bass Clarinet		90	Hi Saw 2	
57	Crystal Voice 2		74	Oboe		91	Reso Saw 1	
58	Digital Voice 1		75	Trumpet		92	Reso Saw 2	
59	Digital Voice 2		76	SQR		93	Hi reso Saw 1	
60	Whistle 1		77	Digi SQR 1		94	Hi reso Saw 2	
61	Whistle 2		78	Digi SQR 2		95	Hi reso Saw 3	
62	Digi Flute 1		79	Digi SQR 3		96	Hi reso Saw 4	
63	Digi Flute 2		80	Digi SQR 4		97	Hi reso Saw 5	
64	Digi Flute 3		81	Digi SQR 5		98	Digi Wave 1	
65	Digi Flute 4		82	Digi SQR 6		99	Digi Wave 2	
66	Digi Flute 5		83	Digi SQR 7		100	Digi Wave 3	
67	Glass Flute 1		84	Tiny Digi SQR		101	Digi Wave 4	

PRE-DEFINED WAVEFORMS - CONTINUE

CC Value	Wave		CC Value	Wave		CC Value	Wave	
	Name	Shape		Name	Shape		Name	Shape
102	Digi Wave 5		111	Bell 2		120	Overtone 1	
103	Digi Wave 6		112	Tubular 1		121	Overtone 2	
104	Digi Wave 7		113	Tubular 2		122	Overtone 3	
105	Digi Wave 8		114	Glockenspiel 1		123	Overtone 4	
106	Digi Wave 9		115	Glockenspiel 2		124	Overtone 5	
107	Digi Reso Wave 1		116	Syn Bell 1		125	Digi 7 th 1	
108	Digi Reso Wave 2		117	Syn Bell 2		126	Digi 7 th 2	
109	Vibe Bell		118	Syn Bell 3		127	Digi Clock	
110	Bell 1		119	Little Syn Bell				

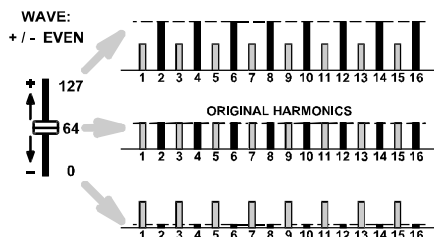
INCREMENT / DECREMENT ODD HARMONICS

The CC increments or decrements intensity of all used odd harmonics. In the middle position (value 64 of the CC), the waveform is not affected by the function. Values 63 to 0 decrease the intensity of all used odd harmonics, values 64 to 127 increase the intensity of all used odd harmonics.



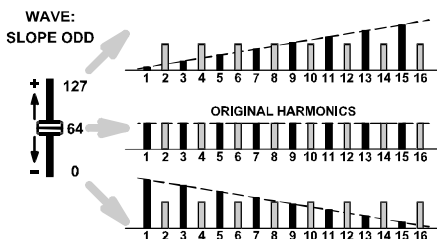
INCREMENT / DECREMENT EVEN HARMONICS

The CC increments or decrements intensity of all used even harmonics. In the middle position (value 64 of the CC), the waveform is not affected by the function. Values 63 to 0 decrease the intensity of all used even harmonics, values 64 to 127 increase the intensity of all used even harmonics.



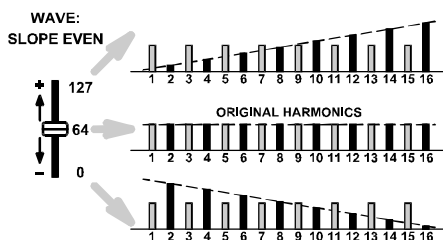
SLOPE ODD HARMONICS

The CC adjusts the slope of all used odd harmonics intensities. In the middle position (value 64 of the CC), the waveform is not affected by the function. Values 63 to 0 increase the intensity of used lower odd harmonics and decrease the intensity used of higher odd harmonics, values 64 to 127 decrease intensity of the used lower odd harmonics and increase the intensity of used higher odd harmonics



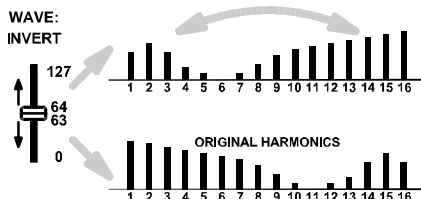
SLOPE EVEN HARMONICS

The CC adjusts the slope of all used even harmonics intensities. In the middle position (value 64 of the CC), the waveform is not affected by the function. Values 63 to 0 increase the intensity of used lower even harmonics and decrease the intensity of used higher even harmonics, values 64 to 127 decrease the intensity of used lower even harmonics and increase the intensity of used higher even harmonics



INVERT HARMONICS

The CC swaps the numbers of all used harmonics. It works as a two-position switch. Values 64 to 127 invert the numbers of used harmonics (the highest harmonic is swapped with the lowest harmonics etc.), values 0 to 63 returns the swapped harmonics numbers back to their original values.



COMPARE

The CC allows comparison of the original waveform (before User Waveform function¹³ had been used) and modified waveform (edited by User Waveform function). If the CC values are 0 to 63, modified waveform is called up and audible. For values 64 to 127, original waveform is called up and audible.

Remarks:

All User Waveform Functions affect/modify only the harmonics used in the selected/created waveform¹⁴. No new harmonics are added to the original set of used harmonics.

The original K3's ROM waveforms can not be modified! The Waveform functions affect only the user additive waveforms! To listen to the results of the Waveform functions select for one or both oscillators the User waveform - number 32 first (OSC-1 WAVE SELECT, OSC-2 WAVE SELECT parameter).

¹³ The comparison is possible only for both INCREMENT / DECREMENT, for both SLOPE and for INVERT functions. It does not work for USER WAVE SELECTOR as well as for all random setting of the waveform – these functions are not comparable.

¹⁴ I.e. waveform loaded as a content of the tone or waveform copied from table of pre-defined waveforms or randomly generated wave by RANDOM function.



4 SYSTEM PARAMETERS

System Parameters define basic functions of SAVVY (MIDI channel for communication, MIDI data flow processing, tone number display format, display brightness, etc.).

SYSTEM PARAMETERS				
Parameter			Factory Default ¹⁵	
Name	Range	Description	Value	Description
Global Parameters				
MIDI Channel	0 ~ 15	0: Chnl 1 ... 15: Chnl 16	0	MIDI Channel Nr. 1
Use Bank Select Command	0 ~ 1	0: No / 1: Yes	1	Yes
MIDI Errors Auto Reset	0 ~ 1	0: Off / 1: On	1	On
Remember last tone	0 ~ 1	0: No / 1: Yes	1	Yes
Tone Number Format	0 ~ 1	0: 0 to 383 / 1: 1 to 384	1	Numbers 1 to 384
Display Brightness	0 ~ 15	0: min ... 15: max	15	Maximal brightness
Inst → Ctrl Data Transfer				
Select Device ID for Bulk Dump	0 ~ 1	0: Universal / 1: MIDI Chnl Nr.	0	Universal ID Number
Send All CCs (Tone Change)	0 ~ 1	0: No / 1: Yes	1	Yes
Send One CC (Parameter Change)	0 ~ 1	0: No / 1: Yes	1	Yes
Send Manual Tone Slct as Pgm Chng	0 ~ 1	0: No / 1: Yes	1	Yes
Ctrl → Inst Data Transfer				
Cache Modifications in Edit Buffer	0 ~ 1	0: No / 1: Yes	1	Yes
Cache Macro Settings in Edit Buffer	0 ~ 1	0: No / 1: Yes	1	Yes
Cache Random Setting in Edit Buffer	0 ~ 1	0: No / 1: Yes	1	Yes
Accept Pgm Chng from Ctrl	0 ~ 1	0: No / 1: Yes	1	Yes

4.1 GLOBAL PARAMETERS

4.1.1 MIDI Channel

This parameter sets MIDI channel used for the instrument control (**0 for channel 1, 1 for channel 2, etc. up to 15 for channel 16**). All MIDI Channel messages are received and transmitted on selected MIDI channel only. MIDI channel for the SAVVY editor must be the same as selected MIDI channel of the controlled instrument!

4.1.2 Use Bank Select (CC #32)

If the parameter is 1 (i.e. "YES"), SAVVY uses the **CC #32** as the **Bank Select LSB** command for communication between the controller / PC and SAVVY. The CC #32 then defines number of active tone memory bank (0 to 6).
If the parameter is 0 (i.e. "NO"), the CC #32 can be used as universal CC for setting of a tone parameter (see chapter 3).

4.1.3 MIDI Errors Auto Reset

If the parameter is 1 (i.e. "ON") and an error in MIDI communication occurs, the **communication is reset** and the device continues normal operation.

If the parameter is 0 (i.e. "OFF") and an error in MIDI communication occurs, the **device stops operation** and the error status it indicated.

¹⁵ Factory preset values are user editable. See chapter 5 for details..

4.1.4 Remember Last Tone

If the parameter is 1 (i.e. "YES"), SAVVY **remembers last selected tone number** after switching off (for next session).

If the parameter is 0 (i.e. "NO"), SAVVY always **starts with the first tone** number.

4.1.5 Tone Number Format

This parameter sets the displayed tone number format. It can be either **0** to **127** (parameter value is 0) or **1** to **128** (parameter value is 1).

4.1.6 Display Brightness

The parameter sets the display brightness (**0** for minimum, **15** for maximum).

4.2 INST → CTRL DATA TRANSFER PARAMETERS

4.2.1 Select Device ID for Bulk Dump

The parameter selects identification number of the SAVVY editor for both transmitted and received MIDI Bulk Dump SysEx Messages.

If the parameter is 1 (i.e. "MIDI Channel"), the Device ID number is the same as number of MIDI channel chosen for MIDI communication with the instrument (i.e. global parameter MIDI Channel).

If the parameter is 0 (i.e. "Universal ID Number"), the Device ID number is equal to 127. SysEx messages will be in such setting recognized by any SAVVY editor independently on selected MIDI channel number.

4.2.2 Send All CCs (Tone Change)

If the parameter is 1 (i.e. "YES"), the SAVVY editor **transmits all CCs** assigned to tone parameters **when tone number is selected / changed** (manually by button on front panel or by APR SysEx message or Program Change command from the instrument).

If the parameter is 0 (i.e. "NO"), **no CCs are transmitted after tone select / change**.

4.2.3 Send One CC (Parameter Change)

If the parameter is 1 (i.e. "YES"), the SAVVY editor **transmits MIDI CC** assigned to a tone parameter each time the **parameter is changed on the instrument** (by IPR SysEx message).

If the parameter is 0 (i.e. "NO"), assigned **CC is not transmitted** after the parameter change.

4.2.4 Send Manual Tone Slect as Pgm Chng

If the parameter is 1 (i.e. "YES"), **Program Change** command is **sent to the controller / PC** each time the tone is changed manually (by buttons on SAVVY's front panel). If "Use Bank Select Command" parameter (see chapter 4.1.2) is "YES", the Bank Select LSB command (i.e. CC #32) is also sent.

If the parameter is 0 (i.e. "NO"), **Program Change** command is **not transmitted**.



4.3 CTRL → INST DATA TRANSFER PARAMETERS

4.3.1 Cache Modifications in Edit Buffer

If the parameter is 1 (i.e. "YES"), any **change of tone** parameters made by a "Modifier" CCs are **sent to the instrument and remain in edit buffer** (so they can be saved together with the tone parameters in SAVVY's memory).

If the parameter is 0 (i.e. "NO"), the **changes** are only **sent to the instrument and not cached** in edit buffer.

4.3.2 Cache Macro Settings in Edit Buffer

If the parameter is 1 (i.e. "YES"), any **change of tone parameters** made by a "Macro" CC are **sent to the instrument and remain in edit buffer** (so they can be saved as a new tone parameters values in SAVVY's memory).

If the parameter is 0 (i.e. "NO"), the **changes are only sent** to the instrument and they are **not cached** in edit buffer.

4.3.3 Cache Random Setting in Edit Buffer

If the parameter is 1 (i.e. "YES"), **changes** of tone parameters generated by the "Random" CC are sent to the instrument and **remain in edit buffer** (so they can be saved as a new tone parameters values in SAVVY's memory).

If the parameter is 0 (i.e. "NO"), the **changes** are only sent to the instrument and they are **not cached**.

4.3.4 Accept Pgm Chng from Ctrl

If the parameter is 1 (i.e. "YES"), the editor **changes its tone** each time a **Program Change** command is received from the connected controller / PC. Number of newly selected tone bank conforms to value of the received Program Change command. If "Use Bank Select Command" parameter (see chapter 4.1.2) is "YES", the Bank Select LSB command (i.e. CC #32) is also accepted and active tone bank is also changed.

If the parameter is 0 (i.e. "NO"), **Program Change** command is **ignored** by the SAVVY.

5 SYSEX MESSAGES GENERATOR

As a support for the users we have made software generator to create System Exclusive messages to control the SAVVY editor. Any necessary SysEx message can be created with this generator without difficult calculating of binary or hexadecimal numbers.

The generator is based on Java scripts so it can run on any computer with web browser (Windows, OSX, etc.)¹⁶. To send the generated commands you will also need a **utility to send the generated text**¹⁷ as a MIDI SysEx dump (see chapter 6 for recommended software¹⁸).

Visit our website and download the **“syxgen_007-20_Kawai-K3.zip”** archive for Kawai K3 instrument. Expand the archive to a selected folder on your computer's hard drive (i.e. **“index.html”**, **“00720_general.html”**, **“00720_instrument.html”**, **“00720_tone.html”** and **“00720_help.html”** files and **“media”** sub-folder).

To launch the SysEx messages generator, simply open the **“index.html”** file in your web browser (e.g. by clicking on the file icon). The generator type selector window opens.

Click on **“Go”** button to request either **System Parameters** ①, **Instrument Parameters** ② or **Tone Data** ③ SysEx message generator windows.

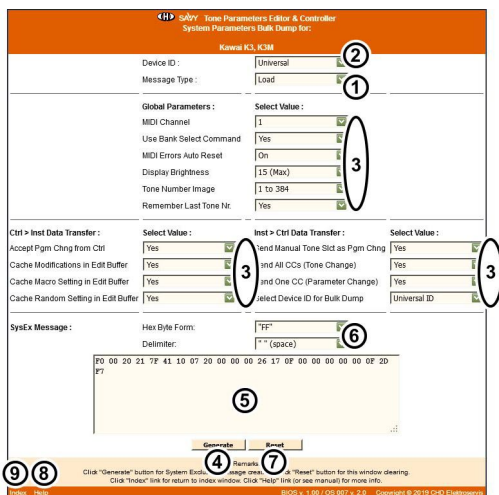


5.1 SYSTEM PARAMETERS WINDOW

5.1.1 Change the system parameters

To change / adjust the system parameters:

1. Select **“Load”** message type ①.
2. Select the **“Device ID”** ② (It is either the same number as active MIDI Channel Nr. or **“Universal”**¹⁹).
3. Select / adjust requested values of System parameters to be changed ③.
4. Click the **“Generate”** button ④.
5. The hexadecimal MIDI SysEx message is generated as a text in the **“SysEx Message”** field ⑤.
6. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) to a MIDI Sysex software²⁰.
7. Send the message to SAVVY²¹.
8. SAVVY starts operation with the new system parameters settings immediately, no reset is necessary.



¹⁶ Note that scripts and ActiveX elements must be enabled in web browser for proper function of the generator.

¹⁷ The generated format of the message is **text**. The text can not be saved as a *.syx or *.mid file directly, hence a text to SysEx utility is needed.

¹⁸ It is not necessary to use the recommended utility. The same function is provided by various DAW and MIDI SysEx softwares. For required text format and instructions check the documentation of your DAW/software.

¹⁹ “Universal” ID will be recognized by any SAVVY editor.

²⁰ See Chapter 6.1.2 for recommended MIDI SysEx software.

²¹ SAVVY must be set in **“CTRL→INST”** communication direction.

5.1.2 Request the contents of system memory

To request the contents of System parameters memory for backup in your computer:

1. Select **"Request"** message type ①.
2. Select the **"Device ID"** ② (It is either the same number as active MIDI Channel Nr. or **"Universal"**²²).
3. Click the **"Generate"** button ④.
4. The hexadecimal MIDI SysEx message is generated as a text in the **"SysEx Message"** field ⑤.
5. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) in a MIDI Sysex software²³.
6. Send the message to SAVVY²⁴.
7. SAVVY responds immediately – it sends the System parameter settings as **"Load"** type SysEx message²⁵.
8. Now you can save the received message in your computer for further use.

5.1.3 Initialize data

To initialize the System data to factory default values:

1. Select **"Initialize"** message type ①.
2. Select the **"Device ID"** ② (It is either the same number as active MIDI Channel Nr. or **"Universal"**²⁶).
3. Click the **"Generate"** button ④.
4. The hexadecimal MIDI SysEx message is generated as a text in the **"SysEx Message"** field ⑤.
5. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) in a MIDI Sysex software²⁷.
6. Send the message to SAVVY²⁸.
7. SAVVY starts operation with the initialized system settings immediately, no reset is necessary.

5.1.4 Other functions

Select **"Hex Byte Form"** and **"Delimiter"** character ⑥ as required for your MIDI SysEx software²⁹. Default setting of the generator is optimized for the recommended **Pocket MIDI** utility³⁰ (see Chapter 6). However some DAW or MIDI SysEx utilities require different format of the generated text message.

To clear the text field and return all values to their defaults, click the **"Reset"** button ⑦.

"Help" link ⑧ opens new window with brief help.

"Index" link ⑨ closes this window and returns to initial generator type selection window.

²² "Universal" ID will be recognized by any SAVVY editor.

²³ See Chapter 6.1.3 for recommended MIDI SysEx software.

²⁴ SAVVY must be set in **"CTRL→INST"** communication direction and your computer must be connected bi-directionally (both MIDI IN and OUT cables) with SAVVY.

²⁵ If you are using the recommended MIDI SysEx software, the message should be visible in the "MIDI In Monitor" window - see Chapter 6.1.3.

²⁶ "Universal" ID will be recognized by any SAVVY editor.

²⁷ See Chapter 6.1.2 for recommended MIDI SysEx software.

²⁸ SAVVY must be set in **"CTRL→INST"** communication direction.

²⁹ See the documentation of your DAW for required format.

³⁰ The default format is also compatible with Bome SendSX and various other softwares.

5.2 INSTRUMENT PARAMETERS WINDOW

5.2.1 Create / adjust the MIDI CC map

You can **create** your own user **MIDI CC map** in this generator window (e.g. to use your modern Virtual analogue synthesizer as a controller for your vintage instrument).

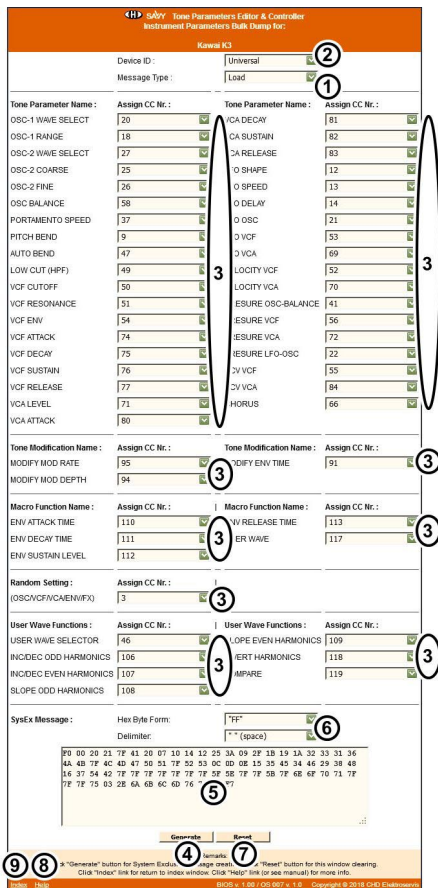
To create your own MIDI CC map:

1. Select **"Load"** message type ①.
2. Select the **"Device ID"** ② (It is either the same number as active MIDI Channel Nr. or **"Universal"**³¹).
3. For each of tone parameter and functions, select / change the respective MIDI CC³² Nr. as you need ③.
4. Click the **"Generate"** button ④.
5. The hexadecimal MIDI SysEx message is generated as a text in the **"SysEx Message"** field ⑤.
6. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) to a MIDI Sysex software³³.
7. Send the message to SAVVY³⁴.
8. SAVVY starts operation with the new user MIDI CC mapping immediately, no reset is necessary.

5.2.2 Request MIDI CC map

Actual **MIDI CC map** can be **saved** in your computer for backup. To request the MIDI CC map:

1. Select **"Request"** message type ①.
2. Select the **"Device ID"** ② (It is either the same number as active MIDI Channel Nr. or **"Universal"**³⁵).
3. Click the **"Generate"** button ④.
4. The hexadecimal MIDI SysEx message is generated as a text in the **"SysEx Message"** field ⑤.
5. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) in a MIDI Sysex software³⁶.
6. Send the message to SAVVY³⁷.
7. SAVVY responds immediately – it sends the MIDI CC map as **"Load"** type SysEx message³⁸.
8. Now you can save the received message in your computer for further use.



The screenshot shows the SAVVY Tone Parameters Editor & Controller Instrument Parameters Dump Dump for: Kawai K3. The window is divided into several sections. At the top, there are fields for Device ID (set to Universal) and Message Type (set to Load). Below this, there are two main columns of parameters. The left column lists Tone Parameter Names (e.g., OSC-1 WAVE SELECT, OSC-1 RANGE, OSC-2 WAVE SELECT, etc.) and the right column lists Tone Modification Names (e.g., VCA DECAY, CA SUSTAIN, CA RELEASE, etc.). Each parameter has a corresponding Assign CC Nr. field. A third column on the right lists Macro Function Names (e.g., ENV ATTACK TIME, ENV DECAY TIME, ENV SUSTAIN LEVEL, etc.) and their Assign CC Nr. fields. At the bottom, there is a Random Setting section and a User Wave Functions section. The SysEx Message field at the very bottom contains a long hexadecimal string. Circled numbers 1 through 8 indicate the steps for creating or requesting a MIDI CC map: 1. Select "Load" message type; 2. Select the "Device ID"; 3. For each of tone parameter and functions, select / change the respective MIDI CC Nr. as you need; 4. Click the "Generate" button; 5. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field; 6. Copy the text in clipboard (CTRL+C) and paste (CTRL+V) to a MIDI Sysex software; 7. Send the message to SAVVY; 8. SAVVY starts operation with the new user MIDI CC mapping immediately, no reset is necessary.

³¹ "Universal" ID will be recognized by any SAVVY editor.

³² You can assign more than one parameter to a single MIDI CC Nr.

³³ See Chapter 6.1.2 for recommended MIDI SysEx software.

³⁴ SAVVY must be set in **"CTRL→INST"** communication direction.

³⁵ "Universal" ID will be recognized by any SAVVY editor.

³⁶ See Chapter 6.1.3 for recommended MIDI SysEx software.

³⁷ SAVVY must be set in **"CTRL→INST"** communication direction and your computer must be connected bi-directionally (both MIDI IN and OUT cables) with SAVVY.

³⁸ If you are using the recommended MIDI SysEx software, the message should be visible in the "MIDI In Monitor" window - see Chapter 6.1.3.



5.2.3 Initialize MIDI CC map

To **Initialize** the MIDI CC map to **factory default** values:

1. Select "**Initialize**" message type ①.
2. Select the "**Device ID**" ② (It is either the same number as active MIDI Channel Nr. or "**Universal**"³⁹).
3. Click the "**Generate**" button ④.
4. The hexadecimal MIDI SysEx message is generated as a text in the "**SysEx Message**" field ⑤.
5. **Copy** the text in clipboard (CTR+C) and **paste** (CTRL+V) in a MIDI Sysex software⁴⁰.
6. Send the message to SAVVY⁴¹.
7. SAVVY starts operation with the initialized MIDI CC map immediately, no reset is necessary.

5.2.4 Other functions

Select "**Hex Byte Form**" and "**Delimiter**" character ⑥ as required for your MIDI SysEx software⁴². Default setting of the generator is optimized for the recommended **Pocket MIDI** utility⁴³ (see Chapter 6). However some DAW or MIDI SysEx utilities require different format of the generated text message.

To clear the text field and return all values to their defaults, click the "**Reset**" button ⑦.

"**Help**" link ⑧ opens new window with brief help.

"**Index**" link ⑨ closes this window and returns to initial generator type selection window.

³⁹ "Universal" ID will be recognized by any SAVVY editor.

⁴⁰ See Chapter 6.1.2 for recommended MIDI SysEx software.

⁴¹ SAVVY must be set in "**CTRL→INST**" communication direction.

⁴² See the documentation of your DAW for required format.

⁴³ The default format is also compatible with Bome SendSX and various other softwares.

5.3 TONE DATA WINDOW

5.3.1 Create single user tone

A **single tone** can be **created** by entering the individual tone parameter values (e.g. to create tone from a Magazine paper sheets, Video tutorials or advices from other users).

To create your own user tone:

1. Select **"Load"** message type ①.
2. Select the **"Device ID"** ② (It is either the same number as active MIDI Channel Nr. or **"Universal"**⁴⁴).
3. Select the **"Tone Nr."** you want to create ③.
4. Select / change the respective value for each of tone parameters ④.
5. Click the **"Generate"** button ⑤.
6. The hexadecimal MIDI SysEx message is generated as a text in the **"SysEx Message"** field ⑥.
7. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) to a MIDI Sysex software⁴⁵.
8. Send the message to SAVVY⁴⁶.
9. SAVVY saves the new tone to selected **"Tone Nr."** for immediate use.

Remark:

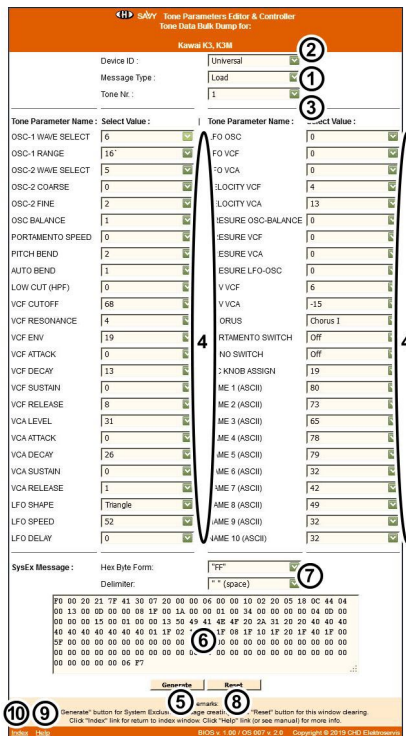
The window offers three parameters PORTAMENTO SWITCH, MONO SWITCH and INCREMENT KNOB ASSIGN. These three parameters are not available in instrument's parameter menu (editing buttons) but their actual status is stored in tone memory together with other sound parameters.

5.3.2 Request single tone

A **single tone** can be **backed up** (e.g. to share your sounds with other users).

To request single tone data:

1. Select **"Request"** message type ①.
2. Select the **"Device ID"** ② (It is either the same number as active MIDI Channel Nr. or **"Universal"**⁴⁴).
3. Select the **"Tone Nr."** you want to request / backed-up ③.
4. Click the **"Generate"** button ⑤.
5. The hexadecimal MIDI SysEx message is generated as a text in the **"SysEx Message"** field ⑥.



⁴⁴ "Universal" ID will be recognized by any SAVVY editor.

⁴⁵ See Chapter 6.1.2 for recommended MIDI SysEx software.

⁴⁶ SAVVY must be set in **"CTRL→INST"** communication direction.

⁴⁷ "Universal" ID will be recognized by any SAVVY editor.

6. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) in a MIDI Sysex software⁴⁸.
7. Send the message to SAVVY⁴⁹.
8. SAVVY responds immediately – it sends the MIDI CC map as “**Load**” type SysEx message⁵⁰.
9. Now you can save the received message in your computer for further use.

5.3.3 Initialize single tone

To **Initialize** a single tone to **factory default** values:

1. Select “**Initialize**” message type ①.
2. Select the “**Device ID**” ② (It is either the same number as active MIDI Channel Nr. or “**Universal**”⁵¹).
3. Select the “**Tone Nr.**” you want to initialize ③.
4. Click the “**Generate**” button ④.
5. The hexadecimal MIDI SysEx message is generated as a text in the “**SysEx Message**” field ⑤.
6. **Copy** the text in clipboard (CTR+C) and **paste** (CTRL+V) in a MIDI Sysex software⁵².
7. Send the message to SAVVY⁵³.
8. SAVVY initializes and saves the selected tone immediately, no reset is necessary.

5.3.4 Other functions

Select “**Hex Byte Form**” and “**Delimiter**” character ⑥ as required for your MIDI SysEx software⁵⁴. Default setting of the generator is optimized for the recommended **Pocket MIDI** utility⁵⁵ (see Chapter 6). However some DAW or MIDI SysEx utilities require different format of the generated text message.

To clear the text field and return all values to their defaults, click the “**Reset**” button ⑦.

“**Help**” link ⑧ opens new window with brief help.

“**Index**” link ⑨ closes this window and returns to initial generator type selection window.

⁴⁸ See Chapter 6.1.3 for recommended MIDI SysEx software.

⁴⁹ SAVVY must be set in “**CTRL→INST**” communication direction and your computer must be connected bi-directionally (both MIDI IN and OUT cables) with SAVVY.

⁵⁰ If you are using the recommended MIDI SysEx software, the message should be visible in the “MIDI In Monitor” window - see Chapter 6.1.3.

⁵¹ “Universal” ID will be recognized by any SAVVY editor.

⁵² See Chapter 6.1.2 for recommended MIDI SysEx software.

⁵³ SAVVY must be set in “**CTRL→INST**” communication direction.

⁵⁴ See the documentation of your DAW for required format.

⁵⁵ The default format is also compatible with Bome SendSX and various other softwares.

6 RECOMMENDED MIDI SOFTWARE

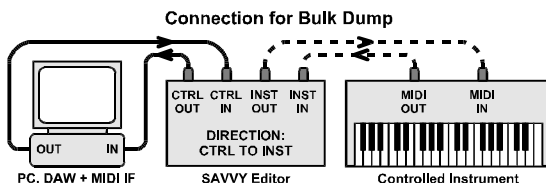
The hexadecimal MIDI SysEx messages created in the Generators (as described in chapter 5) are in **plain text format**. The text can not be saved as a *.syx or *.mid file directly, hence a text to SysEx capable utility or DAW is needed.

6.1 POCKET MIDI

Pocket MIDI⁵⁶ is a utility that can be used to send the text as a SysEx message. It is a simple MIDI monitoring tool for both Windows and Mac OSX platforms. **Pocket MIDI** is a **freeware** for commercial, non-profit or private use.

6.1.1 Setting up the computer⁵⁷ and software

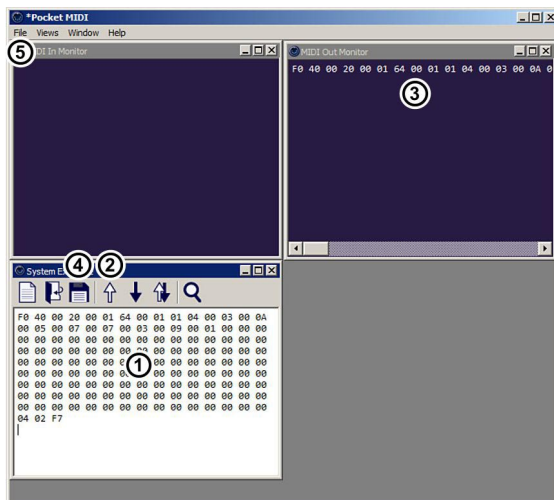
1. **Download** the **Pocket MIDI** utility at <https://www.morson.jp/pocketmidi-webpage/>
2. **Install** the utility in your computer.
3. **Connect** SAVVY accordingly to the figure "Connection for Bulk Dump".
4. **Select** the MIDI interface **Input and Outputs** to device where the SAVVY is connected to (drop-down menu **Views → MIDI Settings → Input Port / Outpu Port**).



6.1.2 Send the text SysEx message to SAVVY

Basic procedure to send any SysEx data to SAVVY.

1. Generate required SysEx message in the SysEx Messages Generator (as described in Chapter 5)⁵⁸.
2. **Copy** the text in clipboard (CTR+C) and **paste** (CTRL+V) in "System Exclusive" window^①.
3. Click the "↑" ("Transmit") arrow ^② to send the data to SAVVY.
4. The sent message appears in the "MIDI Out Monitor" window ^③.
5. Alternatively **you can save the file** for future use (either by the floppy icon ^④ as a *.txt file or in the drop-down "File" menu ^⑤ as a *.pocketmidi file).



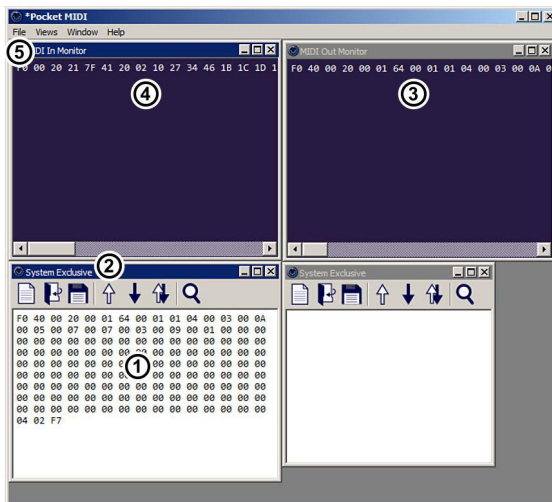
⁵⁶ Pocket MIDI is Copyright © MORSON JAPAN Co.,Ltd. All rights reserved.

⁵⁷ Computer MIDI interface must be active / switched on and all necessary MIDI drivers correctly installed.

⁵⁸ The correct "FF" Hex Byte Form and " " (space) for Delimiter are the initial values after the generator is launched, so there is no need to change them for Pocket MIDI.

6.1.3 Request the SysEx data from SAVVY

1. **Generate** required ("Request" type) SysEx message in the SysEx Messages Generator (as described in Chapter 5)⁵⁹.
2. **Copy** the text in clipboard (CTR+C) and **paste** (CTRL+V) in "System Exclusive" window ①.
3. Click the "↑" ("Transmit") arrow ② to send the data to SAVVY.
4. The sent message appears in the "MIDI Out Monitor" window ③.
5. SAVVY responds with "Load" type SysEx message. The received message appears in the "MIDI In Monitor" window ④.
6. Click on the "MIDI In Monitor" window heading and **Save** the data (File dropdown menu ⑤) as a *.pocketmidi file) for future use.
7. Alternatively **you can copy the data** (CTRL+C) from "MIDI In Monitor" window ④ and paste (CTRL+V) to any text editor and **save** as a *.txt or document file.



6.2 ALTERNATIVE SOFTWARE SOLUTIONS

There are various DAW and MIDI utilities⁶⁰ that can be used for the communication with SAVVY, both commercial and free. Among the others:

MIDI-OX (free for private users, paid for commercial users) – advanced MIDI tool for MS Windows computers:
<http://www.midiox.com/>

Bome SendSX (postcardware for private users, reasonably paid for commercial users) – Simple and effective MS Windows MIDI utility:
<https://www.bome.com/products/sendsx>

InerziaSysEx (commercial) – advanced MIDI tool for Mac OSX:
available on iTunes

Steinberg Cubase Pro (commercial) - DAW for both MS Windows and Mac OSX computers with full sysex support:
<http://www.steinberg.net>

Apple Logic Pro (commercial) – Mac OSX DAW with full sysex support (all versions up to Logic Pro X):
<https://www.apple.com/logic-pro/>

Cakewalk Sonar (commercial) – MS Windows DAW with full sysex support:
<http://www.cakewalk.com/>

etc.

⁵⁹ The correct "FF" Hex Byte Form and " " (space) for Delimiter are the initial values after the generator is launched, so there is no need to change them for Pocket MIDI.

⁶⁰ All mentioned products are copyright of their respective owners.

7 TONE MEMORY ORGANIZER

The Tone Memory Organizer is a support software what we have made for the users to rename and relocate individual tones stored in SAVVV's tone memory. Also whole tone banks can be copied, exchanged or initialized. The software and guide how to use it are available for downloading at our website.

SAVVY Tone Memory Organizer for
Roland Juno-106, HS-60 (OS 001 ver. 2.0)

Insert whole received Bulk Dump stream:

```

FO 00 20 21 7F 41 10 01 20 00 00 00 24 35 0F 00 00 00 00 0F 15 F7 E9 00
20 21 7F 41 20 01 20 00 0E 25 24 17 32 33 36 35 37 47 4A 4B 4C 4D 1E 19 1B
1C 42 23 34 44 31 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F
5E 5D 5C 5B 7F 7F 7F 7F 7F 7F 7F 03 51 F7 F9 00 20 21 7F 41 30 01 20
00 00 14 31 00 66 00 23 0D 3A 00 56 6C 03 31 2D 20 00 00 01 01 01 00 00
01 42 7E 61 73 73 20 20 20 20 20 40 40 40 40 40 40 40 40 40 40 40 40 40
1A 1A 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20

```

Status

Check Tone 896 changed!

Source Tone Data:

Tone No. (Bank No.) (Pg# No.) (Name) (SysEx Data)

125 0 124 Rocket Men FO 00 20 21 7F 41 30 01 20 00 7C 6C 00 00 0

Target Tone Data:

Tone No. (Bank No.) (Pg# No.) New Name / Copy Source (SysEx Data)

896 6 127 Rocket Men FO 00 20 21 7F 41 30 01 20 06 7F 6C 00 00 0

Execute

Reset Index Help © 2009 CHD ElektroServis

Tone Library

Bank 0		Bank 1		Bank 2		Bank 3		Bank 4		Bank 5		Bank 6	
Tone	Name	Tone	Name	Tone	Name	Tone	Name	Tone	Name	Tone	Name	Tone	Name
001: Brass	129: Bl Phase	287: SteelDrums	385: Calliope	513: Flaccato	641: Koto	769: SynBassII							
002: BrassShall	130: Sweep Down	288: Xylophone	386: DecalSP128	514: HighString	642: Dark Pluck	770: Punky III							
003: Trumpet	131: Sunrise	289: Brass III	387: Celeste	515: Bass Clari	643: Punky I	771: Thud Wah							
		290: Synth	388: E.Piano I	516: Eng.Horn	644: SynBass I	772: Going Up							
				517: Brass Top	645: SynBass I	773: ...							



Tone Parameters Editor & Controller

Model TPE-1 Nr. 8-361 / Bios v. 1.00 / OS Nr. 007 v. 2.0

Document: 8361100-00720_manual

Manufacturer:

CHD Elektroservis, Czech Republic
www.chd-el.cz info@chd-el.cz



SAVY

Tone Parameters Editor & Controller