



SYSTEM-8 Software Synthesizer

Owner's Manual

Introduction

When using the SYSTEM-8 Software Synthesizer for the first time, you must specify the MIDI Input/Output setting in the Setting window (p. 10).

For details on the settings for the DAW software that you're using, refer to the DAW's help or manuals.

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Main Window

LF0	LFO 0SC 1 / 0SC 2				SUB OSC	FILTER		
Here you can crea	te cyclic change (modulation) in the sound.	Here you can select	the waveform that determines the character of the sound,			These settings det	termine the brightness and thickness of the sound.	
	Variation 1 Variation 2 Variation 3	and specify its pitcl	n.		Selects the waveform that is the basis of the sound.	VARIATION		
VARIATION	Sine wave Sine wave x 2 TYPE 1	WAVE	→ "OSC 1/OSC2 Variation (VARIATION) and Waveform (WAVE)" (p. 5)		∼ -20ct Sine wave two octaves lower	CUTOFF	➡ "FILTER Variation (VARIATION) and Type (TYPE)" (p. 5)	
	Triangle wave Triangle wave TYPE 2	OCTAVE	Specifies the octave of the oscillator.	ТҮРЕ		RESO F	Resonance boosts the sound in the region of the filter's cutoff	
	Sawtooth wave	(64–2FEET) COLOR	Adjusts the tone.		Triangle wave	f	requency.	
	x2	MOD	Selects the source that is modulated by the [COLOR] knob.			ENV	requency change produced by the [A], [D], [S], and [R] sliders.	
	Square wave Square wave TYPE 4	COARSE TUNE	Adjusts the pitch in semitone steps.	COLOR	The result depends on the waveform	KEY A	Allows the filter cutoff frequency to vary according to the key	
WAVE	រហ្វាប Sample and Sample and TYPE 5	CROSS MOD	Modifies the OSC 1 frequency according to the OSC 2	TUNE	Adjusts the pitch of the oscillator.	VELOCITY A	Adjusts the sensitivity by which the key velocity (playing	
	Random wave	(OSC 1 only)	waveform.			SENS o	dynamics) varies the depth of the filter envelope.	
	KND Random wave x 2		by multiplying OSC 1 and OSC 2.			HPF	components below the cutoff frequency are cut.	
РІТСН	Allows the LFO to modulate the pitch of the sound, producing a vibrato effect.		OSC 1			A A	Attack time	
FADE TIME	Specifies the time from when the tone sounds until the	(OSC 2 only)	OSC 2 - ΙΑΛΛΛΑΛΑΛΛΑΛΛΑΛΛΑΛΛΑΛΑ			D Decay time		
	LFO reaches its maximum amplitude. Allows the LFO to modulate the FILTER CUTOFF (cutoff					5	Sustain level	
FILTER	frequency).					R F	Release time	
KEY TRIG	Specifies whether the LFO waveform is synchronized to start the moment you press a key (on) or is not		This is oscillator sync. It generates a complex waveform					
	synchronized (off).		by forcibly resetting OSC 2 to the beginning of its cycle in synchronization with the OSC 1 frequency.					
TRIG ENV	Causes the envelope to start repeatedly at the LFO cycle							
RATE	Determines the speed of the LFO modulation.	(OSC 2 only)						
AMP	Allows the LFO to modulate the AMP LEVEL (volume),							
					\square \square	-		
			OSC 2 OSC 3 MIXEB	PITCH	EII TEB	AMP	FFFECT DELAY/ REVER	
			UBOS	- II GII	TELO	ату	CHORUS	
	VARIATION WAVE PITCH VARIATION WAVE	ARIAT	ION WAVE 32 16 8 TYPE OSC1 OSC2	ENV	VARIATION CUTOFF RESO ENV KEY SEN	S TONE LEV	VEL TYPE TYPE TYPE	
		COARSE C	COLOR COARSE COLOR OSC 3/	EY ON	TYDE KEY ON THEY OFF	- NEY	OFF TOWE TIME TIME	
	PADE TIME HILTER COLOR		COLUM TORE COLUM SUB OSC NOISE	× A-d+0>	We KAHADATS LERA			
				I- nn -	(C) -NNN)በበ		
		- + RIN			LPF18 - E- E- E- E-			
	BATE AMP CROSS		MOD TUNE TUNE TYPE		VELOCITY SENS HPF		DEPTH LEVEL LEVEL	
	TRIG ENV	SYN SYN						
				كاللجلالة				
	1/8 MAN					عدالا تدريا تع	FF OFF OFF	
						EFFECTS, D	DELAY/CHORUS, REVERB	
						Here you can adju	ist the effect, delay/chorus, and reverb depth.	
MIXER		PITCH		AMP		EFFECT TYPE	Selects the effect type.	
Adjust the OSC 1,	OSC 2, OSC 3/SUB OSC, Noise's volume.	time-varying change (envelope) for pitch.	Here you can d	reate time-varying change (envelope) for the volume.		Specifies the character of the effect.		
OSC 1 A	Adjust the OSC 1's volume.	lft	his knob is turned toward the right, the pitch initially	VELOCITY	Adjusts the sensitivity by which the key velocity (playing			
OSC 2 A	Adjust the OSC 2's volume.	ENIV DE	comes higher and then returns to the pitch of the key you	SENS	dynamics) varies the volume.	DELAY/CHO TYPI	Switches the delay/chorus type. Adjusts the time by which the sound is delayed.	
OSC 3/SUB OSC Adjust the OSC 3/SUB OSC's volume.		LIVV pi	his knob is turned toward the left, the pitch initially becomes	LEVEL	Adjusts the volume.	LEVEL	Adjusts the volume of delay/chorus.	
NOISE A	Adjust the noise's volume.	lo	wer and then returns to the pitch of the key you pressed.	A	Attack time	REVERB TYPE	Switches the reverb type.	
NOISE TYPE S	elects the type of the noise.	D Th	ese sliders operate similarly to the [A] [D] sliders of the AMP ction (they affect the pitch rather than the volume).	D	Decay time	TIME	Specifies the reverb time.	
			· · · · · · · · · · · · · · · · · · ·	s	Sustain level	LEVEL	Specifies the reverb volume.	
				-				
				к	Release time			

OSC 1/OSC2 Variation (VARIATION) and Waveform (WAVE)

Variation 1	Variation 2	Variation 3 (*1)	Variation 4 (*2)
Sawtooth wave (SAW)	Noise Saw (NOISE SAW)	FM 2 operator (FM 1:1)	FM 5 operator (FM Type A)
Square wave (SQR)	Logic (LOGIC OPERATION)	FM 2 operator (FM 1:1.5)	FM 5 operator (FM Type B)
Triangle wave (TRI)	FM (FM)	FM 2 operator (FM 1:2)	FM 5 operator (FM Type C)
Sawtooth wave2 (SAW2)	FM+SYNC (FM SYNC)	FM 2 operator (FM 1:3.5)	FM 5 operator (FM Type D)
Square wave2 (SQR2)	Vowel (VOWEL)	FM 2 operator (FM 1:15)	FM 5 operator (FM Type E)
Triangle wave2 (TRI2)	CB (COWBELL)	FM 2 operator (FM 6:1)	FM 5 operator (FM Type F)

- * The FM waveform of Variation 2 applies frequency modulation using a logarithmic scale. Operating the COLOR knob will change the pitch.
- * The FM waveform for Variations 3 and 4 applies frequency modulation using a linear scale. Operating the COLOR knob will not change the pitch.

*1 FM 2 operator (Variation 3)



	1	2			
Variation 3	SIN	SIN	Explanation		
FM 2 operator (FM 1: 1) 1 1 U		1	Uses harmonic overtones to produce a waveform similar to a sawtooth wave.		
FM 2 operator (FM 1: 1.5)	A 2 operator (FM 1: 1.5) 1 1.5		Allows you to obtain a harmonic at -1 octave.		
FM 2 operator (FM 1: 2)	1	2	Uses odd-numbered harmonics to produce a waveform similar to a square wave.		
FM 2 operator (FM 1: 3.5) 1 3.5		3.5	Produces bell-like sounds.		
FM 2 operator (FM 1: 15)	1	15	Using ENV to adjust the COLOR parameter produces the attack sound of an electric piano.		
FM 2 operator (FM 6: 1)	6	1	Using ENV to adjust the COLOR parameter produces a sound similar to electric guitar feedback.		

*2 FM 5 operator(Variation 4)



Variation 4	1	2	3	4	5	Evaluation	
variation 4	SIN	TRI	SIN	TRI	SIN	Explanation	
FM 5 operator (FM Type A)	1	4	11	4	15		
FM 5 operator (FM Type B)	1	1	9	4	9	Produce a tone generated by harmonic overtones that differ for each type.	
FM 5 operator (FM Type C)	1	2	9	4	9		
FM 5 operator (FM Type D)	1	1	11	3.5	11	Produce a tone generated by inharmonic overtones that differ for each type.	
FM 5 operator (FM Type E)	1	3	11	3.5	11		
FM 5 operator (FM Type F)	1	1	1	40	1	Produces a tone with formant characteristics.	

FILTER Variation (VARIATION) and Type (TYPE)

Variation	Explanation	Behavior of the [CUTOFF] knob		
LPF/HPF (Variation 1)	Low pass filter (LPF), High pass filter (HPF)	Cutoff		
SBF (Variation 2)	/ariation 2) Side band filter (SBF)			
SYSTEM-1 (Variation 3)	This is a SYSTEM-1 type low pass filter (LPF).	Cutoff		
JUPITER-8 (Variation 4)	The JUPITER-8's HPF and VCF (LPF)	Cutoff		
JUNO-106 (Variation 5)	The JUNO-106's HPF and VCF (LPF)	Cutoff		
FORMANT 2 (Variation 6)	Formant filter (morphing between two formants)	Formant		
FORMANT 3 (Variation 7)	Formant filter (morphing between three formants)	Formant		
HARMONICS (Variation 8)	Filter that uses a feedback delay to vary the overtones The HPF CUTOFF knob operates as the LPF/HPF knob.	Harmonics		

Parameter	Value	Explanation
		Low pass filter (LPF), High pass filter (HPF) Selects the slope of the filter. LPF: -24dB, -18dB, -12dB
	(Variation 1) LPF-24dB, LPF-18dB, LPF-12dB, HPF-12dB, HPF-18dB, HPF-24dB	Volume -24 dB -24 dB -12 dB -12 dB -12 dB -12 dB -24 dB Frequency Frequency Frequency
E	(Variation 2) SBF1-SBF6	Side band filter (SBF) You can use the [CUTOFF] knob to adjust the band interval. You can also use the filter type knob to select the range of the band interval. SBF1–3: Low range, Mid range, High range with original sound SBF4–6: High range, Mid range, Low range without original sound You can use the resonance knob to adjust the band width.
	(Variation 3) LPF-24dB, LPF-18dB, LPF-12dB	This is a SYSTEM-1 type low pass filter (LPF) Selects the slope of the filter. Although the knob moves through six steps, this setting has three values. Even if you move the knob to the fourth or subsequent step, the value is LPF-12 dB.
	(Variation 4) LPF-24dB, LPF-18dB, LPF-12dB	The JUPITER-8'S HPF and VCF (LPF) Selects the slope of the filter. Although the knob moves through six steps, this setting has three values. Even if you move the knob to the fourth or subsequent step, the value is LPF-12 d8.
	(Variation 5) LPF-24dB, LPF-18dB, LPF-12dB	The JUNO-106's HPF and VCF (LPF) Selects the slope of the filter. Although the knob moves through six steps, this setting has three values. Even if you move the knob to the fourth or subsequent step, the value is LPF-12 dB.
	(Variation 6)	Formant filter (morphing between two formants)
	u-a, u-e, u-i, o-a, o-e, o-i	Selects the combination of formants.
	(Variation 7)	Formant filter (morphing between three formants)
	u-i-a, u-e-a, u-i-e, o-i-a, o-e-a, o-i-e	Selects the compliation of formants.
	(Variation 8)	Selects the length of the delay.
	64FFFT 32FFFT 16FFFT 8FFFT 4FFFT	This is typically set to the same octave (feet) as OSC1 or OSC2.
	2FEET	You can additionally modify the FEET setting of HARM to select the desired effect.

PORTAME	ENTO / PITCH BEND / MODULATION	TEMPO / ASSIGN MODE				ARPEGGIO)	
PORTAMENTO	Adjusts the time over which pitch change occurs when portamento is applied.	TEMPO SYNC	The modulation sp delay time (TIME)	peed (RATE) of the of the EFFECTS	he LFO section and the section are synchronized	ARPEGGIO ARP TYPE	Turns the arpeggio function on/off. Selects the arpeggio type.	
LEGATO	Applies portamento only when you play legato (i.e., when you press the next key before releasing the previous key).		UNISON Multiple notes are sounded together as a		are sounded together as a	ARP STEP	Selects the note value for each step of the arpeggio.	
BEND RANGE	Specifies the amount of pitch bend range. Specifies a multiplier for the BEND RANGE, extending the	KEY ASSIGN	MONO	The instrument (Mono).	ent plays monophonically	OCTAVE	Shifts the pitch range of the keyboard in one-octave units.	
BEND SENS	range of change. Specifies the amount of the pitch change produced by pitch bend progrations		POLY	The instrument (Poly).	t plays polyphonically			
BEND SENS FILTER	Specifies the amount of the filter change produced by pitch bend operations.							
MOD SENS PITCH	Specifies the amount of the pitch change produced by modulation operations.							
MOD SENS FILTER	Specifies the amount of the filter change produced by modulation operations.							
				- T				1
	BEND SENS MOD SENS	BEND BEN RANGE GAIN		TEMPO AS	KEY SSIGN - UNISON - MONO POLY	ARP TYPE 0 UHD DOWN DOWN 10CT UHD UHD 10CT UHD UHD 20C	ARP STEP 1/8.1/16 1/8.1/16 1/16.1/16 1	Roland SYSTETT-B PLUG-OUT SYNTHESIZER
								K EYBOARD

Memory and Bank

1. Click the [PATCH] button.

The Patch Select window opens.

	[NEW] button Creates a new empty bank.		[DELE Deletes the	ETE] butto e selected bank.	on
	[LOAD] button mports a bank.		[SAVI Exports a b	E] button Doank as a file.	
B K 1 Prese C C C C C C C C C C C C C	A-1: SY System-8 Sar A-2: SQ System-8 Sar A-2: SQ System A-3: PL Synth Sige A-4: SY EDM Chi 1 A-5: PD Each String A-6: LD OSC Syne Li B-1: SY Smoke Loung B-2: SQ TranceArpo B-3: KY Phase EP B-4: BR Brass Fanfar B-6: LD 5th Sweeper B-7: BS Licked B-8: SY T-Buzz 1	ws C-1: PD Overtone Str C-2: SQ NeverLand C-3: KY VT Key The selected memory is shown in light blue. C-3: FX Space D-1: SY Soul Punch thd D-2: SQ Mod Arpg D-3: SY 5M Ambiplick e D-4: BR New Romantic D-5: PD Blow Pad D-6: LD Saw Lead D-7: BS DF Bass D-8: BS Wobble Love NOTE All 64 memories are received in bark, overwriting the previous want to keep the state of the b receive the memories into the ISEND ALLL] button Sends all (64) memories in the ba SYSTEM-8.	E-1: SY M E-2: SQ C E-3: PD C E-5: PO C E-5: PO C E-5: PO C F-2: SQ F F-2: SQ F F-2: SQ F F-2: SQ F F-3: KY O F-4: BR C F-4: BR C F-5: FO W F-6: LD Sy F-7: BS W F-8: FX Pe SW ALL SW SW ALL SW SW ALL SW SW ALL SW SW S	odern Trance lockworks ondenser aned g Pad WM Lead ass Burn It Zap HS Synth M Arpg D Organ assic Brass isjoy Pad mc Solo H Reso Bs mcussive off ALL soft ALL soft ALL for ALL	G-1: SY Something Big G-2: SQ Ethereal Arpg G-3: BL Dual FM Bells G-4: BR Brass Tacks G-5: PD Super Saws G-6: LD Gilder G-7: BS Bass Melody G-8: SY T-Buzz 2 H-1: For Vocoder H-2: SQ Arper Chord H-3: SY Spit Hits H-4: SY T-Buzz 3 H-5: PD SquareStrings H-6: LD S-Andes H-7: BS Lots of Saws H-8: FX Tek Toms White RCMME READ WHITE REMEMBED
[WRITE] but Saves an edited sound bank.	tton d as a memory in the	[RENAME] button Renames the selected memory.		[READ] Loads a memo	button ory from a bank.

Bank

A set of 64 memories is called a "bank." By switching banks you can access a large number of memories. A bank of memories can be saved as a file.



Changing to Other Bank

1. Click the Bank field.

The bank list window opens.

2. Click the bank that you want to recall.

By pressing the [▲] [▼] buttons located at the right of the bank field, you can switch to the next or previous bank.

Exporting the Bank

Here's how to export a bank as a file.

1. Click the [SAVE] button.

The file name input window opens.

2. Enter a file name and save. The file is exported.

Importing a Bank

- **1.** Click the [LOAD] button. The file selection window opens.
- **2. Select a file and load it.** The bank is loaded.

Creating/Deleting a Bank

Creating a bank

Click the [NEW] button to create a new empty bank.

Deleting a bank

Here's how to delete the selected bank.

- **1.** Select a bank as described in "Changing to Other Bank" (p. 7).
- 2. Click the [DELETE] button. A confirmation screen appears.
- **3.** Click [OK] to delete the bank.

Renaming a Bank

- **1.** Select a bank as described in "Changing to Other Bank" (p. 7).
- 2. At the left of the bank field, click ►.
- **3.** Edit the name and press the [Return (Enter)] key.

Memory

The SYSTEM-8 Software Synthesizer manages 64 memories as one bank.

Loading a Memory

Here's how to load a memory from a bank. When you load a memory, its settings appear in the edit area and can be edited.

- **1.** Click the number of the memory that you want to load.
- **2.** Click the [READ] button. Or press the [Return (Enter)] key.
 - The memory is loaded.
 * You can also load a memory by double-clicking a memory number.

Saving the Memory

Here's how to save an edited sound as a memory in the bank.

- 1. Click the number of the memory in which you want to save the sound.
- Click the [WRITE] button.
 The memory is saved in the bank.

Renaming the Memory

- 1. Click the number of the memory that you want to rename.
- **2.** Click the [RENAME] button.
- 3. Change the memory name. (Up to 16 letters)

Changing the Order of the Memories

Drag the memory number to change the order of memories.

Playing with the SYSTEM-8

Memories that you edit using the SYSTEM-8 Software Synthesizer can be sent (SEND) to the SYSTEM-8 and played.

You can also receive (GET) memories from the unit into the SYSTEM-8 Software Synthesizer and edit them.

The "SYSTEM-8 CTRL" shown as a MIDI port is the port used by the SYSTEM-8 Software Synthesizer.

Do not use this port from your DAW.



Send Memories

Sending One Memory

Here's how to send the memory in the SYSTEM-8 Software Synthesizer to the SYSTEM-8.

- **1.** On the SYSTEM-8, turn the MODEL [SYSTEM-8] button on. The SYSTEM-8 is in SYSTEM-8 mode.
- **2.** Click the [SEND] button.

The memory is sent.

Sending All Memories

Here's how to send all (64) memories in the bank to the SYSTEM-8.

NOTE

The 64 memories are transmitted in a single operation. If the SYSTEM-8 contains any memories that you want to keep, use the "Get Memories" (p. 9) procedure to receive these memories into the computer and save them before you continue.

1. As described in "Changing to Other Bank" (p. 7), select the bank that contains the memories that you want to send.

2. Click the [SEND ALL] button.

The 64 memories are sent.

Get Memories

Here's how to receive memories from the SYSTEM-8 into the SYSTEM-8 Software Synthesizer.

Receiving One Memory

Here's how the memory that's recalled (being edited) on the SYSTEM-8 can be received into the SYSTEM-8 Software Synthesizer.

1. On the SYSTEM-8, press the MODEL [SYSTEM-8] button.

The SYSTEM-8 is in SYSTEM-8 mode.

2. Click the [GET] button.

The memory is received.

Receiving All Memories

Here's how all (64) memories stored on the SYSTEM-8 can be received.

NOTE

All 64 memories are received into the currently selected bank, overwriting the previous contents of that bank. If you want to keep the state of the bank, create a new bank and receive the memories into the newly created bank (p. 8).

1. Specify the bank that will receive the memories.

* If you want to create a new bank to receive the memories, press the [NEW] button. If you want to receive the memories into a specific existing bank, specify the bank as described in "Changing to Other Bank" (p. 7).

Click the [GET ALL] button.

The 64 memories are received.

Settings

Option

1. Click the [OPTION] button.

\checkmark	SYSTEM-8 Layout
	Zoom 100%
\checkmark	Zoom 125%
	Zoom 150%
	Zoom 175%
	Zoom 200%
	Set MIDI Control Mapping for SYSTEM-8
	Clear MIDI Control Mapping
	2 Voices
	4 Voices
	6 Voices
✓	8 Voices
	Optimize for Lower CPU Usage

2. Select items.

A \checkmark is shown for the selected item.

Item	Explanation				
SYSTEM-8 Layout	Changes the layout of the controllers in the main window. SYSTEM-8 Layout: The controllers are laid out as they are on the SYSTEM-8.				
Zoom	Changes the size of the main window.				
Set MIDI Control Mapping for SYSTEM-8	Set MIDI control change mapping to use the SYSTEM-8 as a control surface.				
Clear MIDI Control Mapping	Clears all MIDI control change mapping.				
2-8Voices	Specifies the maximum simultaneous polyphony. You can reduce the load on the CPU by lowering the polyphony.				
Optimize for Lower CPU Usage	Turn this ON if CPU usage is high, and clicks or pops occur.				
Roland Cloud	Displays the Roland Cloud site.				
Authentication	Performs user authentication for the SYSTEM-8 Software Synthesizer.				

Setting

1. Click the [SETTING] button.

The Setting window opens.

* Flip Scroll Direction is only on Mac.



2. Edit the parameters.

Parameter	Explanation				
MIDI CTRL Input					
MIDI CTRL Output	Choose SYSTEM-8 CIRE.				
Flip Scroll Direction (Only on Mac)	Inverts the direction of rotation when using the mouse wheel to edit a value.				

* If multiple instances of the SYSTEM-8 Software Synthesizer are running, these settings apply to all instances.

Others

If you want to use the SYSTEM-8 to play the SYSTEM-8 Software Synthesizer (plug-in) in your DAW, set the SYSTEM-8's menu item "SYSTEM" \rightarrow "SOUND" \rightarrow "Local Sw" to "SURFACE."

The internal sound engine of the SYSTEM-8 no longer produces sound; only the SYSTEM-8 Software Synthesizer can produce sound.

For detailes, refer to SYSTEM-8 Reference Manual.