

Quick Start

Saving a Sound	<ul style="list-style-type: none"> - select the part containing the Preset you want to save - select a category for this sound for descriptive purpose - press [SAVE] once - select the destination slot using the arrow switches - name the preset using the macro potentiometers below the LCD - press [SAVE] again to confirm - any part or multi switch press will cancel the save action
Power	<p>Only use the included PSU! It comes with several adapters for different countries. It is working with mains from 100 to 240V at 50 or 60 Hz. The output is 12V DC, 0.42A with the polarity as printed on the Manatee panel. Use the power switch at the back of the Manatee to switch it on and off. Please unplug or switch the mains off to save energy. Thanks.</p>
Audio Connections	<p>There is a pair of unbalanced ¼" TS audio sockets as main output. A Second pair for as auxiliary output. You can route parts in the Part Parameters (these are per part obviously) in different configurations by pressing [ALT] + [MIDI] and two clicks of the [+ ->] button below the LCD. If you choose MIXER here, you can use the Pots AUX and MAIN in the MIXER section on the upper right of the front panel to route the signal to one or both of the the two pairs of sockets.</p>
Saving a Sound	<p>Once you edited or created a sound, you may like to store it.</p> <ul style="list-style-type: none"> - select the part containing the Preset you want to save using the buttons [1] - [4] under the LCD - you may select a category for this sound for descriptive purpose. Use the right pot under LCD to do so. - press [SAVE] once - select the destination slot using the arrow switches - name the preset using the macro potentiometers below the LCD - press [SAVE] again to confirm - any part or multi switch press will cancel the save action, if needed
Master Volume	<p>The Master Volume is not stored with the sound. It is always live and WYSIWYG. Use the Mixer Section and Part Parameters to store the volume relative to the Master Volume pot.</p>

Firmware Version 1.0RC7

Sound Parameters

Sections	Page Name	Page #		Left Macro Pot			Middle Macro Pot			Right Macro Pot											
Sound Generation	PTC	-	Pitch	SEM	Semi Tone	±36	FIN	Fine Tune (in cents)	±50	SUB	Semi Tone Sub-Oscillator	±36									
	BAL	-	Balance	SUB	Sub-Oscillator Level	0-255	BAL	Balance (SUB/GEN)	±64	GEN	Generator Level	0-255									
	GEN	-	Generator	Generator Spectrum	GEN	Generator Spectrum		WAV	Carrier Wave	Off, Sine, Saw, Pulse, Bell, Peak	BASIS	Basis name of spectrum	[1]								
		-												FMT	Formant	±127	ROT	Rotation of spectrum	±127	INV	Invert of spectrum
	SUB	1/2	Sub Oscillator	WAV	Waveshape	Off, Sine, Saw, Pulse, Triangle		CNT	Content	0-255	MOD	Modulation	0-255								
		2/2												FM	Frequency Modulation [2]	RATE	FM modulation ratio	1/4, 1/2, 1-5	EGF	Envelope Generator Filter Modulation	0-255
	RNG	1/1	Ring Modulator								LVL	Level	0-255								
	NOI	1/1	Noise	SNH	Sample 'n' Hold	0-255	COL	Noise Colouration	±64	LVL	Level	0-255									
Filter & Shaping	FLT		Filter	MDL	Model	Off, LP2, BP2, HP2, LP4, HP4, Notch	CUT	Cutoff	0-255	RES	Resonance	0-255									
		2/3											EGF	Envelope Generator Filter Mod.Amt.	0-255	LOF	LFO Filter Amount	0-255	TRCK	Tracking	[3]
		3/3											RCF	RC-Filter (1 Pole) Model	Off, LP, HP	CUT	Cutoff	0-255	TRCK	Tracking	Off, Note, Filter
	SAT		Saturation	MODE	Mode	Off, Tube, Fuzz, BitCrusher	DRV	Drive	0-255	MIX	Mix clean / driven	±64									
LFOs	L-1	1/5	LFO 1 (per Part)	FRQ	Frequency	0-255	SHA	Shape A	[4]	AMT	Amount	±127									
		2/5		SHB	Shape B	[4]	SHC	Shape C	[4]	PHAS	Start Phase	Free, Random, Velocity, 0-270° (30° steps)									
	3/5					TARGET	Modulation Destination Target	[5]	EXPR	Amount Modulated by Expression	[6]										
	4/5	DURA		Duration	[7]	SYNC	Synchronisation	[7]	CK	Clocked	On, Off										

Sections	Page Name	Page #	Left Macro Pot			Middle Macro Pot			Right Macro Pot			
		5/5				RISE	Rising time (fade in)	off, 1-63, infinite	FALL	Falling time (fade out)	off, 1-63, infinite	
	L-2	1/5 - 5/5	LFO 2 (per Part)	*** see LFO 1 ***								
	L-F	1/5 - 5/5	LFO Filter (per voice)	*** see LFO 1 ***								
Modulation Matrix	M-1	1/2	Modulation Slot #1		Source	Modulation Source	[8]	AMT	Amount	±127		
		2/2			TARGET	Modulation Destination Target	[9]	EXPR	Amount Modulated by Expression	[6]		
	M-2	1/2 - 2/2	Modulation Slot #2	*** see Modulation Slot #1 ***								
	M-3	1/2 - 2/2	Modulation Slot #3	*** see Modulation Slot #1 ***								
Arpeggiator	ARP	1/2	Arpeggiator	MODE	Mode	Off, On, Hold	OCT	Octaves	0-7	PAT	Pattern	(Play-)Order Up, Down, Up& Down, Down&Up, Walking, Random
		2/2		GRD	Grid (Note length)	96-3	GAT	Gate (staccato > legato > overlapping)	96-3	MSK	Mask	All, M1-M7
Envelopes	ENV	-	Envelopes	ATK	Attack Time	-, 2-254, Inf	SUS	Sustain Level	0-255	REL	Release Time	-, 2-254, Inf
	EG-F	1/4	Envelope Generator Filter	DEC	Decay Time	-, 2-254, Inf	VE	Velocity Expression	0-64	AMT	Amount	±127
		2/4		MODE	Envelope Mode	xDxR, ADxR, xDSR, ADSR, Gated, AxxR	RST	Reset	On, Off	CYC	Cycle (Loop Mode)	On, Off
		3/4			TARGET	Modulation Destination Target	[10]	EXPR	Amount Modulated by Expression	[8]		
		4/4			V-ATK	Velocity on Attack Time	0-255	V-DEC	Velocity on Decay Time	0-255		
	EG-A		Envelope Generator Amplitude	*** see EG-F ***								
Play	PLY	1/2	Play Modes	MODE		Mono, Legato, Poly, Mono Unison, Legato Unison, Poly Unison	DET	Unison Detune	0-255	WID	Unison Stereo Width	0-255
		2/2			GLIDE	Glide (Glissando)	0-32	VOL	Volume	0-255		
	VIB		Vibrato [11]	FRQ	Vibrato Frequency	0-32	RISE	Rising time (fade in)	0-32	AMT	Amount	0-255
	TRM		Tremolo [12]	FRQ	Tremolo Frequency	0-32	RISE	Rising time (fade in)	0-32	AMT	Amount	0-255
[1] Partials (hold [ALT] to edit), root, Even, odd, 7-Up, 4-Sure, Take 5, TX-Bells, B-Split, Ana-Mux, Whats47, Aaaah, Early-V, Late-V, Oddstep, Everrise, Exponrg, Fullbar												

Sections	Page Name	Page #	Left Macro Pot	Middle Macro Pot	Right Macro Pot
		[2]	Only available for sinus and triangle waveshapes		
		[3]	-2.0, -1.5, -1.0, -0.5, -0.3, ±0, +0.3, +0.5, +1.0, +1.5, +2.0		
		[4]	—, Off, Sine, Triangle, rising Saw, falling Saw, Square, short Pulse, long Pulse, folded Triangle, folded Sine, rising double, falling double, folded rising Saw, folded falling Saw, S&H, Random, smoothed Random		
		[5]	Off, Volume, Panning, Pitch, Balance, GEN Rotation, GEN Invertierung, GEN Formant, Noise S&H, Noise Colour, Delay Time, Delay Feedback, Delay Colour, Delay Level, EQ1 Center, EQ1 Amplitude, EQ2 Center, EQ2 Amplitude		
		[6]	Off, Random, Noise, LFO1, LFO2, Sustain Pedal, Modwheel, Breath CC, Foot CC Expression CC, Pressure (<i>mono aftertouch</i>), Velocity, Bender, Aftertouch (<i>poly</i>), CC #74		
		[7]	Available Note Values: 8-2 Bars, 2/3, 1 Bar, 3/4, 1/2, 3/8, 1/3, 5/16, 1/4, 3/16, 1/6, 1/8, 1/12, 1/16, 1/24		
		[8]	Off, LFO1, LFO2, LFO-Filter, Env-F, Env-A, Part, Note, Velocity, Voice, Random, Noise, DC 100%, DC 66%, DC 50%, DC 33%, DC 25%		
		[9]	Off, Volume, Panning, Pitch, Balance, GEN Rotation, GEN Inverting, GEN Formant, GEN Pitch, GEN Level, SUB-Content, SUB Content LFO2 Mod, SUB Pitch, SUB Level, Noise S&H, Noise Colour, Noise Level, Ringmodulator Level, Filter Cutoff, Filter Resonance, Filter Envelope Amount, Filter LFO Amount, RC-Filter Cutoff, Saturation Drive, Saturation Mix, Delay Time, Delay Feedback, Delay Colour, Delay Level, EQ1 Center, EQ1 Amplitude, EQ2 Center, EQ2 Amplitude		
		[10]	Off, Volume, Panning, Pitch, Balance, GEN Pitch, GEN Level, SUB Pitch, SUB Level, SUB-Content, SUB Content LFO2 Mod, Noise Level, Ringmodulator Level, Filter Cutoff, Filter Resonance, Filter Envelope Amount, Filter LFO Amount, RC-Filter Cutoff, Saturation Drive, Saturation Mix		
		[11]	Vibrato is introduced by default via the modwheel. For permanent use the Amount parameter. FRQ:0 = off		
		[12]	FRQ:0 = off		

Setup Parameters

Sections	Page Name	Page #	Left Macro Pot				Middle Macro Pot			Right Macro Pot		
Setup	TUN	-	Tuning	REF	Tuning Reference	420-460 Hz	BUP	Bender range upwards	0-128	BDW	Bender range downwards	0-128
	CLK	-	Clock	SRC	Source	Auto, Intern, MIDI, Extern (socket)	PPQ	Pulses per Quarter Note	2-48	BPM	Beats per Minute	30-285
	UI	1/2	User Interface	LED	LED brightness	Low, Medium, Standard	LCD	LCD Contrast	0-255	BACK	LCD Backlight brightness	Low, High, Smart
		2/2		BKH	Back to Home Screen	Off, On	POTS	Pot Modes	Jump, Move, Grab	MACS	Macro Pot Modes (three pots below LCD)	Jump, Grab
	MPE	-	MPE	Zones			UP	0-15		LOW		0-15
	SYX	-	MIDI System Exclusive	DEVID	Device ID (0 = normal usage)	0-126	RX	Receive external	Off, On	TX	Transmit to external	Off, On
MIDI	MID	1/8	MIDI				LOCAL	Local on	Off, On	ORDER	Note Priority Order in monophonic Play Modes	Last, First, Lowest, Highest
		2/8	CCS	Continues Controllers			RX	Receive external	Off, On	TX	Transmit to external	Off, On
		3/8	NRPNS	Non-Registered Parameters Numbers			RX	Receive external	Off, On	TX	Transmit to external	Off, On
		4/8	PRGCS	Program Changes			RX	Receive external	Off, On	TX	Transmit to external	Off, On
		5/8	CLOCK	Clock			RX	Receive external	Off, On	TX	Transmit to external	Off, On
		6/8	TRANS	Transport (Start, Stop)			RX	Receive external	Off, On	TX	Transmit to external	Off, On
		7/8	SENSE	Active Sensing			RX	Receive external	Off, On	TX	Transmit to external	Off, On
		8/8	ARP NOTES	Arpeggio Notes						TX	Transmit to external	Off, On

Reverb, EQ and Delay Parameters

Sections	Page Name	Page #		Left Macro Pot			Middle Macro Pot			Right Macro Pot		
Reverb	REV	1/1	Reverb	MDL	Model	None, Hall	DIF	Diffusion	0-255	FBK	Feedback	0-255
		2/3		VIBE	Vibe	Dark, Bright	COL	Colour	0-64	SIZ	Size	0-255
		3/3					MONO	Mono	Off / On	LVL	Level	0-255
EQ	EQ1	-	Equalizer	MDL	Model	Off, LowCut, LowShelf, LowBo, HighCut, HighShelf, HighBo, PeakShelf, PKBO, Notch	CNT	Center	0-255	AMP	Amplitude	0-255
	EQ2	-		*** see EQ1 ***								
Delay	DLY	1/4	Delay	MDL	Model	None, Echo, PingPong, Comb	TIM	Delay Time	0-255	FBK	Feedback	0-255
		2/4		POL	Feedback Polarity	Positive, Negative	COL	Colour	±64	VIBE	Vibe	Dark, Bright
		3/4					MONO	Mono	Off / On	LVL	Level	0-255
		4/4		DURA	Duration	None, NoteValues ^[2]	SYNC	Synchronisation	None, NoteValues ^[2]	CK	Clocked	Off / On
			^[2] Available Note Values: 8-2 Bars, 2/3, 1 Bar, 3/4, 1/2, 3/8, 1/3, 5/16, 1/4, 3/16, 1/6, 1/8, 1/12, 1/16, 1/24									

Mixer Parameters (per Part) -> [MIXER]

Sections	Page Name	Page #		Left Macro Pot			Middle Macro Pot			Right Macro Pot			
Mixer	MIX	1/1	Mixer	REV	Reverb Level	0-255	AUX	Aux Output Level	0-255	MST	Main Stereo Output Level	0-255	
		2/3		PRT	Part			SEM	Semitone	±36	FIN	Fine Tune (in cents)	±50
		3/3				PAN	Panning	±64	LVL	Level	0-255		

Part Parameters (per Part) -> [ALT] + [MIDI]

Sections	Page Name	Page #		Left Macro Pot			Middle Macro Pot			Right Macro Pot		
Part	PART	1/1	Part	CHN	MIDI CHannel	1-16, Omni	NLO	Note, lowest	0-127	NHI	Note, highest	0-127
		2/3		VEL	Velocity		VLO	Velocity, lowest	0-127	VHI	Velocity, highest	0-127
		3/3							ROUTING	Routing	Mixer, Main pair, Aux pair, Main-Left, Main-Right, Aux-Left, Aux-Right	