Oberheim Matrix 6/6R/1000 Programming Parameters v1.0 - untergeek.de

Param #	in Hex	bits	range	NRPN	Parameter
0	00h	6	0..63	64..127	DCO1 Frequeny in semitones
1	01h	7(signed)	-63..63	1..127	DCO1 Modulation by LFO1
2	02h	2	0..3	64..67	DCO Sync mode: 0=NO, 1=SOFT, 2=MEDIUM, 3=HARD SYNC
3	03h	6	0..63	64..127	DCO1 PW
4	04h	7(signed)	-63..63	1..127	DCO1 PW Modulation by LFO2
5	05h	6	0..63	64..127	DCO1 Waveshape: 0=Sawtooth, 31=Triangle
6	06h	2	0..3	64..67	DCO1 Waveform: 0=off, 1=Pulse, 2=Saw, 3=Pulse+Saw
7	07h	2	0..3	64..67	DCO1 Fixed Modulations: Bit0=Pitch Bend, Bit1=Vibrato
8	08h	2	0..3	64..67	DCO1 Fixed Modulations: Bit0=Portamento, Bit1=Not used
9	09h	1	0..1	64..65	DCO1 Click off/on
10	0ah	6	0-63	64-127	DCO2 Initial Frequency LSB=1 Semitone
11	0bh	7(signed)	-63..63	1..127	DCO2 Modulation by LFO1
12	0ch	6(signed)	-31..31	33..95	DCO2 Detune
13	0dh	6	0..63	64..127	DCO2 PW
14	0eh	7(signed)	-63..63	65..127	DCO2 PW Modulation by LFO2
15	0fh	6	0..63	64..127	DCO2 Waveshape: 0=Sawtooth, 31=Triangle
16	10h	3	0..7	64..71	DCO2 Waveform: Bit0=Pulse, Bit1=Saw, Bit2=Noise (see #6)
17	11h	2	0..3	64..67	DCO2 Fixed Modulations: Bit0=Pitch Bend, Bit1=Vibrato
18	12h	2	0..3	64..67	DCO2 Fixed Modulations Bit0=Portamento, Bit1=Keyboard
19	13h	1	0..1	64..65	DCO2 Click off/on
20	14h	6	0..63	64..127	Mix: 0=DCO1, 63=DCO2
21	15h	7	0..127	0..127	VCF Cutoff Frequency in semitones
22	16h	7(signed)	-63..63	1..127	VCF Modulation by Env
23	17h	7(signed)	-63..63	1..127	VCF Modulation by Channel Pressure (Aftertouch)
24	18h	6	0..63	64..127	VCF Resonance
25	19h	2	0..3	64..67	VCF Fixed Modulations: Bit0=Pitch Bend, Bit1=Vibrato
26	1ah	2	0..3	64..67	VCF Modulation by Keyboard: Bit0=Portamento, Bit1=Track Keyboard
27	1bh	6	0..63	64..127	VCA1 (exponential)
28	1ch	7(signed)	-63..63	65..127	VCA1 Modulation by Velocity
29	1dh	7(signed)	-63..63	65..127	VCA2 Modulation by Env2
30	1eh	6	0..63	64..127	VCF FM
31	1fh	7(signed)	-63..63	1..127	VCF FM Modulation by Env3
32	20h	7(signed)	-63..63	1..127	VCF FM Modulation by Channel Pressure (Aftertouch)
33	21h	5	1..20	65..84	Tracking Generator Input Source Code (See Table 2)
34	22h	6	0..63	64..127	Tracking Point 1
35	23h	6	0..63	64..127	Tracking Point 2
36	24h	6	0..63	64..127	Tracking Point 3
37	25h	6	0..63	64..127	Tracking Point 4
38	26h	6	0..63	64..127	Tracking Point 5
39					Unused
40	28h	6	0..63	64..127	Ramp1 Rate
41	29h	2	0..2	64..66	Ramp1 Mode: 0=Single Trigger, 1=Multi Trigger, 2=External
42	2ah	6	0..63	64..127	Ramp2 Rate
43	2bh	2	0..2	64..66	Ramp2 Mode: 0=Single Trigger, 1=Multi Trigger, 2=External
44	2ch	6	0..63	64..127	Portamento

45	2dh	7(signed)	-63..63	1..127	Portamento Modulation by Velocity
46	2eh	2	0..3	64..67	Portamento Mode: 0=Constant Speed, 1=Constant Time, 2,3=Exponential
47	2fh	1	0..1	64..65	Portamento Legato off/on
48	30h	2	0..3	64..67	Voice assign: 0=Reassign, 1=Rotate, 2=Unison, 3=Rob
49					Unused
50	32h	6	0..63	64..127	Env1 Delay
51	33h	6	0..63	64..127	Env1 Attack
52	34h	6	0..63	64..127	Env1 Decay
53	35h	6	0..63	64..127	Env1 Sustain
54	36h	6	0..63	64..127	Env1 Release
55	37h	6	0..63	64..127	Env1 Amplitude
56	38h	7(signed)	-63..63	1..127	Env1 Amplitude Modulation by Velocity
57	39h	3	0..3	64..67	Env1 Trigger Mode: 0=off, 1=Reset, 2=Multi Trigger, 3=both
58	3ah	2	0..3	64..67	Env1 Mode: 0=normal, 1=DADR Mode, 2=Freerun, 3=both
59	3bh	2	0..3	64..67	Env1 Trigger Mode: 0=off, 1=Gated, 2=LFO Trig, 3=Both
60	3ch	6	0..63	64..127	Env2 Delay
61	3dh	6	0..63	64..127	Env2 Attack
62	3eh	6	0..63	64..127	Env2 Decay
63	3fh	6	0..63	64..127	Env2 Sustain
64	40h	6	0..63	64..127	Env2 Release
65	41h	6	0..63	64..127	Env2 Amplitude
66	42h	7(signed)	-63..63	1..127	Env2 Amplitude Modulation by Velocity
67	43h	2	0..3	64..67	Env2 Trigger Mode: 0=off, 1=Reset, 2=Multi Trigger, 3=both
68	44h	2	0..3	64..67	Env2 Mode: 0=normal, 1=DADR Mode, 2=Freerun, 3=both
69	45h	2	0..3	64..67	Env2 LFO Trigger Mode: 0=off, 1=Gated, 2=LFO Trig, 3=Both
70	46h	6	0..63	64..127	Env3 Delay
71	45h	6	0..63	64..127	Env3 Attack
72	48h	6	0..63	64..127	Env3 Decay
73	49h	6	0..63	64..127	Env3 Sustain
74	4ah	6	0..63	64..127	Env3 Release
75	4bh	6	0..63	64..127	Env3 Amplitude
76	4ch	7(signed)	-63..63	1..127	Env3 Amplitude Modulation by Velocity
77	4dh	2	0..3	64..67	Env3 Trigger Mode: 0=off, 1=Reset, 2=Multi Trigger, 3=both
78	4eh	2	0..3	64..67	Env3 LFO Mode: 0=normal, 1=DADR Mode, 2=Freerun, 3=both
79	4fh	2	0..3	64..67	Env3 Trigger Mode: 0=off, 1=Gated, 2=LFO Trig, 3=Both
80	50h	6	0..63	64..127	LFO1 Speed
81	51h	7(signed)	-63..63	1..127	LFO1 Modulation by Channel Pressure (Aftertouch)
82	52h	3	0..7	64..71	LFO1 Wave: 0=Tri, 1=Saw Up, 2=Saw Dn, 3=Sqr, 4=Random, 5=Noise, 6=S&H
83	53h	5	0..31	64..95	LFO1 Retrigger point
84	54h	6	0..63	64..127	LFO1 Amplitude
85	55h	7(signed)	-63..63	1..127	LFO1 Amplitude Modulation by Ramp1
86	56h	2	0..2	64..66	LFO1 Trigger: 0=freerun, 1=Single Trigger, 2=Multi Trigger
87	57h	1	0..1	64..65	LFO1 Lag off/on
88	58h	5	1..20	65..84	LFO1 Sampled Source with S&H (see Table 2)
90	5ah	6	0..63	64..127	LFO2 Speed
91	5bh	7(signed)	-63..63	1..127	LFO2 Modulation by Keyboard

92	5ch	3	0..7	64..71	LFO2 Wave: 0=Tri, 1=Saw Up, 2=Saw Dn, 3=Sqr, 4=Random, 5=Noise, 6=S&H
93	5dh	5	0..31	64..95	LFO2 Retrigger point
94	5eh	6	0..63	64..127	LFO2 Amplitude
95	5fh	7(signed)	-63..63	1..127	LFO2 Amplitude Modulation by Ramp2
96	60h	2	0..2	64..66	LFO2 Trigger: 0=freerun, 1=Single Trigger, 2=Multi Trigger
97	61h	1	0..1	64..65	LFO 2 Lag off/on
98	62h	5	1..20	65..84	LFO2 Sampled Source with S&H (see Table 2)

#	source			
0	Not Used			
1	Env1			
2	Env2			
3	Env3			
4	LFO1			
5	LFO2			
6	Vibrato			
7	Ramp1			
8	Ramp2			
9	Keyboard			
10	Portamento			
11	Tracking Generator			
12	Keyboard Gate			
13	Velocity			
14	Release Velocity			
15	Channel Pressure			
16	Pedal 1 (Sustain)	Set in Global Parameters, usually Sustain		
17	Pedal 2	Set in Global Parameters, usually Sostenuto		
18	Pitch Bend			
19	CC 2	Set in Global Parameters, usually Mod Wheel		
20	CC 3	Set in Global Parameters, usually CC#2 (Breath)		