

Factory Program/Voice List

"VO" = NUMBER OF ALLOCATED VOICES

	NAME	PART 1	VO	PART 2	VO	PART 3	VO	PART 4	VO	PART 5	VO
1	PULSE FIRE	✓	1	✓	1						
2	RESINATION	✓	1	✓	1						
3	OLD TIMER	✓	1	✓	1						
4	SUBTERRANEA	✓	1	✓	1						
5	DOMINATOR	✓	1	✓	1	✓	1				
6	PROPELLED	✓	1	✓	1						
7	PLANK SPANKER	✓	4	✓	4						
8	JAY EX	✓	1	✓	1	✓	1				
9	JUPITOUS	✓	8								
10	RINGER	✓	8								
11	OBIE-WAN	✓	8								
12	METALLIK	✓	8								
13	TABLE OF WAVES	✓	8								
14	FRIED CHIPS	✓	8								
15	BRIGHTLY	✓	4	✓	4						
16	CLOCKWATCHER	✓	1	✓	1	✓	1				
17	WHINER	✓	1	✓	1						
18	ALAMOTOWN	✓	1	✓	1	✓	1				
19	BARN DOOR	✓	1	✓	1	✓	1	✓	1	✓	1
20	PHANTOM CHASER	✓	1	✓	1	✓	1				
21	F.M.D.B.	✓	1	✓	1	✓	1	✓	1	✓	1
22	K-BRASS	✓	8								
23	STEAMING	✓	1	✓	1	✓	1				
24	CELEBRITY SQ'S	✓	1	✓	1						
25	ROUND THE BLOCK	✓	4	✓	4						
26	MIDI BLOCK	✓	4	✓	4						
27	STEAM BLOCK	✓	4	✓	4						
28	MENTAL BLOCK	✓	4	✓	4						
29	EVOLUTION	✓	1	✓	1	✓	1	✓	1	✓	1
30	ANALOG WINDS	✓	1	✓	1	✓	1	✓	1	✓	1
31	LFO TAKEOVER	✓	1	✓	1	✓	1	✓	1	✓	1
32	ELECTRO KIT	✓	1	✓	1	✓	1	✓	1	✓	1
33	R-U-303? BASS	✓	1								
34	FAT WOODY BASS	✓	1	✓	1	✓	1	✓	1		
35	FAT SAW BASS	✓	1	✓	1	✓	1				
36	MID ACID BASS	✓	4	✓	4						
37	FAT 303 BASS	✓	1	✓	1	✓	1	✓	1	✓	1
38	SQUELCH BASS	✓	8								
39	SWEEP BASS	✓	2	✓	2	✓	2				
40	HARD BASS	✓	2	✓	2	✓	2				
41	FLOWER	✓	3	✓	3	✓	2				
42	SYNC FX	✓	8								
43	SCRATCHY	✓	8								
44	SATELLITE	✓	8								
45	THIN THIRD	✓	8	✓							
46	HOUSE ORG 1	✓	4	✓	4						
47	PIZZ-ISH	✓	7	✓	1						
48	ORBITORG	✓	2	✓	2	✓	2	✓	2		
49	BRIGHT PAD	✓	4	✓	4						
50	SWELL PAD	✓	8								
51	PAN PAD	✓	4	✓	4						
52	SYNTH COMP	✓	8								
53	BASS n SYNTH	✓	1	✓	7						
54	DAN 3	✓	4	✓	4						
55	SLASH	✓	8								
56	DELICATE	✓	8								
57	SPUTNIK	✓	8								
58	TUNED NOISE	✓	8								
59	LOTUS	✓	8								
60	SYNC OR SWIM	✓	4	✓	4						
61	NEON	✓	4	✓	4						
62	SFX PAN	✓	8								
63	SPARKLE	✓	8								
64	LFO SFX	✓	8								

User Program/Voice List

	NAME	PART 1	VO	PART 2	VO	PART 3	VO	PART 4	VO	PART 5	VO
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Specification

DARKSTAR XP2 8-VOICE SYNTHESIZER

 **Polyphony:** 8 Voices

 **Multitibrals:** 5 Parts

Each part features: *Level, Transpose and Note range setting. Tremolo effect modulated from one LFO / Pan effect modulated from one LFO or Envelope / 4 x assignable outputs*

 **Voice Specification:** 2 Oscillators

Each continuously variable between Sawtooth and square/pulse output

Oscillators can be hard sync'd together

Each can be de-tuned and can be modulated by one of the envelopes/LFOs

For each the pulse width can be varied and modulated by one of the envelopes/LFOs

Oscillator 2 can be transposed 5, 7, 12, 16, 17, 19 or 24 semitones

Oscillator 2 can be switched between: *Normal, Formant, Sine, Pink noise, White noise, Blue noise, Input 1, Input 2*


 **Joystick:** Assignable X/Y Joystick


 **Filter:** 12dB per octave resonant

The cut-off frequency can be modulated by the LFO or envelope and set to track the keyboard

The resonance can be varied and modulated by one of the envelopes or LFOs

The output can be switched between off, low pass, band pass and high pass


 **Envelopes:** 2 x ADSR envelopes, each of which can be set to respond to key velocity

 **LFOs:** 2 x LFOs, each with a separate speed and delay control

Each LFO can be set to output one of the following waveforms: *Ramp, Triangle, Square, Sine, Pulse, Sample & hold, Random*

Each can be set to key sync

Each can be synced to incoming MIDI clock


 **Triggering/Port'mto:** Note triggering can be normal or autoglide


Polyphonic portamento for polyphonic parts


Portamento has constant time, two polyphonic modes and six pre-glide modes

 **MIDI:**

Note ON/OFF, Velocity, Pitch bend, Mod wheel / aftertouch (assignable), Program change, Sustain pedal, most parameter controls, System exclusive

 **Power Supply:** External 9vDC (600mA minimum) output plug wired centre pin +

 **Dimensions/Weight:** 340x230x50mm (13.4x9x2 inches) 3.7kg (8lbs)

 **Optional Accessories:** Rack-02 (5U 19" rack kit) / VOCODA software conversion kit

* Specification and /or appearance subject to change without prior notice due to product improvement.

MIDI Implementation

Date: 1st May 2002 Version: 1

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1-16 1-16	1-16 1-16	Memorized
Mode	Default Messages Altered		Mode 3	
Note Number:	True Voice	X	O	
Velocity	Note ON Note OFF	X X	O X	
Aftertouch	Key's Ch's	X X	X O	
Pitch Bend		X	O	
Control Change	1	X	O	Mod Wheel
	7	O	O	Part Volume
	9	O	O	Part Select
	10	O	O	Panning
	29	O	O	Tremolo
	30	O	O	Oscillator Mix
	31	O	O	Ring Modulation
	35	O	O	Filter Frequency
	36	O	O	Filter LFO Modulation
	37	O	O	Filter Envelope Modulation
	38	O	O	Filter Resonance
	39	O	O	Filter Resonance Modulation
	43	O	O	Envelope 1 Attack
	44	O	O	Envelope 1 Decay
	45	O	O	Envelope 1 Sustain
	46	O	O	Envelope 1 Release
	47	O	O	Envelope 2 Attack
	48	O	O	Envelope 2 Decay
	49	O	O	Envelope 2 Sustain
	50	O	O	Envelope 2 Release
	51	O	O	LFO 1 Speed
52	O	O	LFO 1 Delay	
53	O	O	LFO 1 Shape	
54	O	O	LFO 1 Midi	
55	O	O	LFO 2 Speed	
56	O	O	LFO 2 Delay	
57	O	O	LFO 2 Shape	
58	O	O	LFO 2 Midi	
64	X	O	Sustain	
70	O	O	Oscillator 1 Detune	
71	O	O	Oscillator 2 Detune	
72	O	O	Oscillator 1 Pitch Modulation	
73	O	O	Oscillator 2 Pitch Modulation	
74	O	O	Oscillator 1 Pulse Width	
75	O	O	Oscillator 2 Pulse Width	
76	O	O	Oscillator 1 Pulse Width Modulation	
77	O	O	Oscillator 2 Pulse Width Modulation	
78	O	O	Oscillator 1 Waveform	
79	O	O	Oscillator 2 Waveform	
80	O	O	Chorus effect send	
81	O	O	Chorus effect rate	
82	O	O	Chorus effect depth	
Program Change	True #	O 0 - 63	O 0 - 63	Program No. 1- 64 On Master Channel.
System Exclusive		O	O	
System Real Time	Clock Commands	X	O	Clock, Start.
Aux Messages	:All sound off :Reset all controllers :Local ON/OFF :All Notes OFF :Active sense :System Reset	X X X X X X	X X X X X X	
Mode 1 : OMNI ON, POLY Mode 2 : OMNI OFF, POLY		Mode 3 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO		