

Prophet-6		OB-6	
OSCILLATORS			
<ul style="list-style-type: none">Two discrete VCOs per voice			
<ul style="list-style-type: none">Continuously variable wave shape (triangle, sawtooth, pulse, square) per oscillator		<ul style="list-style-type: none">Continuously variable wave shape (sawtooth and variable-width pulse, plus triangle on oscillator 2) per oscillator	
<ul style="list-style-type: none">Pulse width per oscillatorHard sync: oscillator 1 syncs to oscillator 2			
<ul style="list-style-type: none">Triangle sub-octave generator (oscillator 1) per voice		<ul style="list-style-type: none">Square wave sub-octave generator (oscillator 1) per voice	
<ul style="list-style-type: none">Low frequency mode (oscillator 2)Keyboard tracking on/off (oscillator 2)Oscillator slop/detune amount for increased tuning instability, from subtle to extreme			
MIXER			
<ul style="list-style-type: none">Oscillator 1 amountOscillator 1 sub-octave amountOscillator 2 amountWhite noise amount			
HIGH-PASS FILTER		STATE-VARIABLE FILTER	
<ul style="list-style-type: none">Two-pole, resonant, high-pass filter per voiceBi-polar filter envelope amountVelocity modulation of envelope amountKeyboard tracking: off, half, full		<ul style="list-style-type: none">Two-pole, resonant, filter per voice with low-pass, high-pass, band-pass, and notch functionality inspired by the original Oberheim SEM filterBi-polar filter envelope amountVelocity modulation of envelope amountKeyboard tracking: off, half, full	
LOW-PASS FILTER			
<ul style="list-style-type: none">Four-pole, resonant, low-pass filter per voice, inspired by the original Prophet 5 filterFilter can be driven into self-oscillation with the Resonance controlBi-polar filter envelope amountVelocity modulation of envelope amountKeyboard tracking: off, half, full			
FILTER ENVELOPE			
<ul style="list-style-type: none">Four-stage (ADSR) envelope generatorVelocity modulation of envelope amount			
AMPLIFIER ENVELOPE			
<ul style="list-style-type: none">Four-stage (ADSR) envelope generatorVelocity modulation of envelope amount			
LOW FREQUENCY OSCILLATOR			
<ul style="list-style-type: none">Five wave shapes: triangle, sawtooth, reverse sawtooth, square, and random (sample and hold)Clock sync (internal or external MIDI clock)Initial amount			
<ul style="list-style-type: none">Mod destinations: oscillator 1 frequency, oscillator 2 frequency, oscillator 1 and 2 pulse width, low-pass filter cutoff, high-pass filter cutoff		<ul style="list-style-type: none">Mod destinations: oscillator 1 frequency, oscillator 2 frequency, oscillator 1 and/or 2 pulse width, filter cutoff, filter mode	
POLY MOD		X-MOD	
<ul style="list-style-type: none">Sources: filter envelope (bi-polar) and oscillator 2 (bi-polar)			
<ul style="list-style-type: none">Destinations: oscillator 1 frequency, oscillator 1 shape, oscillator 1 pulse width, low-pass filter cutoff, high-pass filter cutoff		<ul style="list-style-type: none">Destinations: oscillator 1 frequency, oscillator 1 shape, oscillator 1 pulse width, filter cutoff, filter mode	
AFTERTOUCH			
<ul style="list-style-type: none">Source: channel (mono) aftertouch with bi-polar amount			
<ul style="list-style-type: none">Destinations: oscillator 1 frequency, oscillator 2 frequency, LFO amount, amplifier envelope amount, low-pass filter envelope amount, high-pass filter envelope amount		<ul style="list-style-type: none">Destinations: oscillator 1 frequency, oscillator 2 frequency, LFO amount, amplifier envelope amount, filter envelope amount	
CLOCK			
<ul style="list-style-type: none">Master clock with tap tempoBPM control and displayMIDI clock sync			

Prophet-6	OB-6
ARPEGGIATOR	
<ul style="list-style-type: none"> Selectable note value: 16th note, 8th note triplet, 8th note, dotted 8th note, quarter note <ul style="list-style-type: none"> One, two, or three octave range Up, down, up/down, random, and assign modes 	
SEQUENCER	
<ul style="list-style-type: none"> Polyphonic step sequencer with up to 64 steps and rests 	
EFFECTS	
<ul style="list-style-type: none"> Stereo analog distortion 	
<ul style="list-style-type: none"> Dual, 24-bit, 48 kHz digital effects, including: reverb (room, hall, plate, spring), delay (full bandwidth digital delay and emulated bucket brigade and tape delays), chorus, and phase shifter 	<ul style="list-style-type: none"> Dual, 24-bit, 48 kHz digital effects, including: reverb (room, hall, plate, spring), delay (full bandwidth digital delay and emulated bucket brigade and tape delays), chorus, flanger, phase shifters, and ring modulator
<ul style="list-style-type: none"> Delay sync True bypass maintains fully analog signal path when digital effects are off 	
PERFORMANCE CONTROLS	
<ul style="list-style-type: none"> Full-sized, semi-weighted, 4-octave keyboard with velocity and aftertouch <ul style="list-style-type: none"> Backlit pitch and mod wheels Spring-loaded pitch wheel with selectable range per program (1 to 12 semitones up and down) <ul style="list-style-type: none"> Transpose controls for an 8-octave range Hold switch latches held notes on Polyphonic glide/portamento Unison (monophonic) mode with configurable voice count, from one to all six voices, chord memory, and key modes <ul style="list-style-type: none"> Preset/Manual switch: when off, the front panel is live; what you see is what you hear 	
PATCH MEMORY	
<ul style="list-style-type: none"> 500 user and 500 factory programs in 10 banks of 100 programs each Direct program access, including single-button access to the current set of 10 programs 	
IN/OUT	
<ul style="list-style-type: none"> Left/mono and right audio outputs (2 x 1/4" phone jack) <ul style="list-style-type: none"> Headphone output (stereo, 1/4" phone jack) <ul style="list-style-type: none"> MIDI in, out, and thru ports USB for bidirectional MIDI communication 	
<ul style="list-style-type: none"> Low-pass filter cutoff expression pedal input 	<ul style="list-style-type: none"> Filter cutoff expression pedal input
<ul style="list-style-type: none"> Volume expression pedal input <ul style="list-style-type: none"> Sustain footswitch input Sequencer start/stop footswitch input 	
POWER	
<ul style="list-style-type: none"> IEC AC power inlet for internal power supply Operates worldwide on voltages between 100 and 240 volts at 50 to 60 Hz; 30 watts maximum power consumption 	
PHYSICAL SPECS	
<ul style="list-style-type: none"> 32" L x 12.7" W x 4.6" H (81.3 cm x 32.3 cm x 11.7 cm) <ul style="list-style-type: none"> 20.0 lbs (9.5 kg) Walnut end panels and trim 	