Feature	Hydrasynth Deluxe	Hydrasynth Keyboard	Hydrasynth Desktop	Hydrasynth Explorer
Complete Hydrasynth engine	Yes	Yes	Yes	Yes
Voice count	16 Voices in Single mode 2 layers of 8 voices in Multi mode	8 voices	8 voices	8 voices
Split / stack voices	Yes	No	No	No
Pedal inputs	Sustain, Expression	Sustain, Expression	Sustain, Expression	Sustain
Keyboard / input method	73 Key semi-weighted Polytouch® polyphonic aftertouch keybed with note on, note off velocity	49 Key semi-weighted Polytouch® polyphonic aftertouch keybed with note on velocity	24 Polytouch® velocity and pressure sensitive color LED pads with scale and alternate layout modes	37 mid-sized Key semi-weighted Polytouch® polyphonic aftertouch with note on, note off velocity
CV / Gate inputs	2 Modulation inputs (±5v, 0-10v, 0-5v, 0-1v)	2 Modulation inputs (±5v, 0-10v, 0-5v, 0-1v)	2 Modulation inputs (±5v, 0-10v, 0-5v, 0-1v)	No
CV / Gate outputs	Pitch out: 1v per octave (±5v, 0-10v), Hz to Volts (0-10v), 1.2v per octave Keyboard gate out Mod 1/2 outs (±5v, 0-10v, 0-5v, 0-1v) Gates: S-trig and V-trig (3v, 5v,10v)	Pitch out: 1v per octave (±5v, 0-10v), Hz to Volts (0-10v), 1.2v per octave Keyboard gate out Mod 1/2 outs (±5v, 0-10v, 0-5v, 0-1v) Gates: S-trig and V-trig (3v, 5v,10v)	Pitch out: 1v per octave (±5v, 0-10v), Hz to Volts (0-10v), 1.2v per octave Keyboard gate out Mod 1/2 outs (±5v, 0-10v, 0-5v, 0-1v) Gates: S-trig and V-trig (3v, 5v,10v)	Pitch out: 1v per octave (±5v, 0-5v), Hz to Volts (0-5v), 1.2v per octave Keyboard gate out Mod 1/2 outs (±5v, 0-5v, 0-1v) Gates: S-trig and V-trig (3v, 5v)
Clock out	1 PPS, 2 PPQ, 24 PPQ, 48 PPQ Voltage: 3v, 5v,10v	1 PPS, 2 PPQ, 24 PPQ, 48 PPQ Voltage: 3v, 5v,10v	1 PPS, 2 PPQ, 24 PPQ, 48 PPQ Voltage: 3v, 5v,10v	1 PPS, 2 PPQ, 24 PPQ, 48 PPQ Voltage: 3v, 5v
MIDI	USB MIDI, DIN MIDI In, Out, Thru	USB MIDI, DIN MIDI In, Out, Thru	USB MIDI, DIN MIDI In, Out, Thru	USB MIDI, DIN MIDI In, Out
Supports MPE in / out	Yes	Yes	Yes	Yes
Supports polychaining (voice overflow)	Yes	Yes	Yes	Yes
Control knobs	Master Volume, Balance, 8 knobs for Arp section, 8 knobs and buttons for macros, 5 knobs and 2 buttons for performance Filter control section	Master Volume, 8 knobs for Arp section, 8 knobs and buttons for macros, 5 knobs and 2 buttons for performance Filter control section	Master Volume, 4 knobs for Arp section, 8 knobs and buttons for macros, 3 knobs and 2 buttons for performance Filter control section	Master Volume, 4 knobs for Arp section, 4 knobs and buttons for macros, 3 knobs and 2 buttons for performance Filter control section
Ribbon controller	Yes, includes theremin mode	Yes, includes theremin mode	No	No
Pitch / Mod wheel	Yes, backlit	Yes, backlit	No	Touch strips with LED indicator
Audio outputs	Rear (4): 1/4" Balanced left, right main outputs (upper), 1/4" balanced left, right outputs (lower), master volume control Front: 1/8" stereo and 1/4" stereo headphone outputs, shared volume control	1/4" Balanced left, right outputs, 1/8" stereo and 1/4" stereo headphone outputs, shared volume control	1/4" Balanced left, right outputs, 1/4" stereo headphone outputs	1/4" Balanced left, right outputs, 1/4" stereo headphone outputs
Patch memory	Singles: 8 banks of 128 patches = 1024 5 banks of Multi patches = 640 1664 total	8 banks of 128 patches = 1024 total	8 banks of 128 patches = 1024 total	8 banks of 128 patches = 1024 total
Battery powered	No	No	No	Yes, 8 AA batteries (not included) 5+ hours
DC power requirement	12v DC center positive (2 amp)	12v DC center positive (1 amp)	12v DC center positive (1 amp)	12v DC center positive (1 amp)
Chassis	Steel top and bottom plastic capped buttons	Steel top and bottom plastic capped buttons	Steel top and bottom plastic capped buttons	Steel bottom plate, plastic upper, rubberized buttons
Dimensions	113 x 35 x 10.3 cm (44.5 x 13.75 x 4.7")	80 x 35 x 10.3 cm (31.5 x 13.8 x 4.1")	44 x 22.3 x 7 cm (17.3 x 8.8 x 2.8")	55.6 x 25.5 x 7.8 cm (21.9" x 10" x 3.1")
Weight	13.5 kg (29.8 lbs)	10 kg (22.05 lbs)	3.6 kg (7.94 lbs)	3.4 kg (7.5 lbs)