

# HYDRASYNTH COMPARISON CHART

Here are many features compared between all Hydrasynth models  
(view in fullscreen on PC/Mac/Tablet)

View the Full Specifications at  
[asmhydrasynth.com](http://asmhydrasynth.com)

Feature	Hydrasynth Keyboard	Hydrasynth Desktop	Hydrasynth Deluxe	Hydrasynth Explorer
Complete Hydrasynth engine	Yes	Yes	Yes	Yes
Voice count	8 voices	8 voices	16 Voices in Single mode 2 layers of 8 voices in Multi mode	8 voices
Split / stack voices	No	No	Yes	No
Pedal inputs	Sustain, Expression	Sustain, Expression	Sustain, Expression	Sustain
Keyboard / input method	49 Key semi-weighted Polytouch® poly aftertouch note on velocity	24 Polytouch® velocity and pressure sensitive color LED pads	73 Key semi-weighted Polytouch® poly aftertouch note on, note off Velocity	37 midsize semi-weighted Polytouch® poly aftertouch 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	Yes, multiple standards	Yes, multiple standards	Yes, multiple standards	Yes, multiple standards. Limited to 5v max
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	Volume, Arp 8 knobs, macros 8 knobs & buttons, filter control 5 knobs & 2 buttons	Volume, Arp 4 knobs, macros 8 knobs & buttons, Filter control 3 knobs & 2 buttons	Volume, Balance, Arp 8 knobs, macros 8 knobs & btns, filter 5 knobs & 2 buttons	Volume, Arp 4 knobs, macros 4 knobs & buttons, Filter control 3 knobs & 2 buttons
Ribbon controller	Yes, includes theremin mode	No	Yes, includes theremin mode	No
Pitch / Mod wheel	Yes, backlit	No	Yes, backlit	Touch strips with LED indicator
Audio outputs	Rear: 1/4" Balanced stereo outputs, Front: 1/8" & 1/4" stereo phone outs	Rear: 1/4" Balanced stereo outputs, Front: 1/8" & 1/4" stereo phone outs	Rear: 2 sets of balanced stereo 1/4" outs, Front : 1/4" & 1/8" stereo phones outs	1/4" Balanced stereo outputs, 1/4" stereo phones outs
Patch memory	8 banks of 128 patches = 1024 total	8 banks of 128 patches = 1024 total	Singles: 8 banks of 128 patches= 1024, Multi: 5 banks= 640 , 1664 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 (1 amp)	12v DC center positive (1 amp)	12v DC center positive (2 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	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")	113 x 35 x 10.3 cm (44.5 x 13.75 x 4.7")	55.6 x 25.5 x 7.8 cm (21.9" x 10" x 3.1")
Weight	10 kg (22.05 lbs)	3.6 kg (7.94 lbs)	13.5 kg (29.8 lbs)	3.4 kg (7.5 lbs)