

## ***U-max sound engine 'INIT' filters list and description***

<b>Filter name</b>	<b>Filter type</b>	<b>Filter description</b>	<b>VAST DSP Construction</b>
L24	Lowpass 24dB/Oct	4 pole lowpass filter classic Moog type	4 blocks resonant lowpass 'Mogue'
L18	Lowpass 18dB/Oct	3 pole lowpass filter	2 blocks resonant lowpass + 1 block lowpass in serial
L12	Lowpass 12dB/Oct	2 Pole lowpass filter	2 blocks resonant lowpass
L6	Lowpass 6dB/Oct	1 pole filter going from notch to resonant lowpass filter	3 blocks parametric EQ + 1 block lowpass in serial
H24	Highpass 24dB/Oct	4 pole highpass filter	4 blocks resonant highpass
H18	Highpass 18dB/Oct	3 pole highpass filter	2 block resonant highpass + 1 block highpass in serial
H12	Highpass 12dB/Oct	2 pole highpass filter	2 block resonant highpass
H6	Highpass 6dB/Oct	1 pole filter going from notch to resonant highpass filter	3 blocks parametric EQ + 1 block highpass in serial
B24	Bandpass 24 dB/Oct	Sharp bandpass filter with adjustable bandwidth	2 blocks bandpass + 2 blocks bandpass in serial
B12	Bandpass 12 dB/Oct	Softer bandpass filter with adjustable bandwidth	2 blocks bandpass
2P1	Twinpeaks filter 1	2 peaks filter with separation set to 1200 cts and adjustable bandwidth	4 blocks twinpeaks w/separation
2P2	Twinpeaks filter 2	2 peaks filter with separation set to 2400 cts and adjustable bandwidth	4 blocks twinpeaks w/separation
N12	Notch 12dB/Oct	Notch filter with adjustable bandwidth	2 blocks notch
N12 + L12	Notch 12dB/Oct + Lowpass 12dB/Oct	Notch filter with adjustable width + 2 pole lowpass filter - Notch filter frequency detuned	2 blocks notch + 2 blocks resonant lowpass in serial
N12 + H12	Notch 12dB/Oct + Highpass 12dB/Oct	Notch filter with adjustable width + 2 pole highpass filter - Notch filter frequency detuned	2 blocks notch + 2 blocks resonant highpass in serial
L12 + B6	Lowpass 12dB/Oct + Bandpass 6dB/Oct	2 pole lowpass filter + 1 pole bandpass filter	2 blocks resonant lowpass filter + 1 block lowpass + 1 block highpass in serial
H12 + B6	Highpass 12dB/Oct + Bandpass 6dB/Oct	2 pole highpass filter + 1 pole bandpass filter	2 blocks resonant highpass filter + 1 block lowpass + 1 block highpass in serial
L12 + H6	Lowpass 12dB/Oct + Highpass 6dB/Oct	2 pole lowpass filter + 1 pole highpass filter	2 blocks resonant lowpass filter + 1 block highpass in serial
H12 + L6	Highpass 12dB/Oct + Lowpass 6dB/Oct	2 pole highpass filter + 1 pole lowpass filter	2 blocks resonant highpass filter + 1 block lowpass in serial
B12 + N12	Bandpass 12dB/Oct + Notch 12dB/Oct	bandpass filter + notch filter with adjustable bandwidth - Notch filter frequency detuned	2 blocks bandpass + 2 blocks notch filter in serial
L6 + A12	Lowpass 6dB/Oct + Allpass 12dB/Oct	1 pole lowpass filter + phaser type filter with adjustable bandwidth	1 block lowpass + 2 blocks allpass in serial
H6 + A12	Highpass 6dB/Oct + Allpass 12dB/Oct	1 pole highpass filter + phaser type filter with adjustable bandwidth	1 block highpass + 2 blocks allpass in serial
A18	Allpass 18dB/Oct	Phaser type filter with adjustable bandwidth	2 blocks allpass + 1 block allpass in serial
A12	Allpass 12dB/Oct	Phaser type filter with adjustable bandwidth	2 blocks allpass