



# WELCOME TO ELECTRA DSP

The hardware Electra EQ set a new benchmark for fast, smooth, punchy equalization, and the Electra DSP's precisely modeled filters embody that spirit flawlessly.

The high shelf is unusually flexible and the bass reaches down to the floor. The twin midrange filters have a magic proportional-Q, an adaptive bandwidth behavior which automatically and intelligently tightens the filter as you boost it. They're so articulate, they can make drums sound like they were tuned and even mic'd differently. No matter how aggressively it's set, Electra is relentlessly smooth and unapologetically analog in character.

# ELECTRA DSP

## DEEPER INTO THE CONTROLS

### THE CONTROLS



**HIGH SHELIVING** A custom-tuned, 6dB/octave high-shelf with corner frequency ranging from 3.8k-20kHz. Frequency is adjusted with either the black outer knob or the orange slider; gain is adjusted with either the chrome inner knob or green slider. As with everything else Electra, don't be afraid to make big moves!

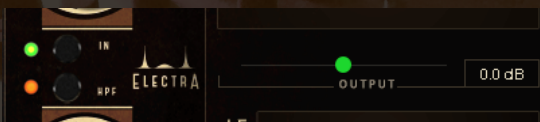


**PROPORTIONAL-Q MIDS** Two proportional-Q bands ranging between them from 30Hz up to 5.4kHz, and overlapping between 250Hz and 750Hz. As with the High Shelf, frequency is adjusted with the black outer knobs or corresponding orange sliders. Unlike the high shelf, these two bands provide a unique and punchy proportional-Q boost or cut, as described below...



**ABOUT PROPORTIONAL-Q** The graph to the left shows a **Standard Wide-Q bell** overlapping **Electra's Proportional-Q bell**. Notice how both curves are wide at the skirt, but when you turn up Electra's bell it gets tight at the peak... and only at the peak!

This ingenious wide-AND-tight curve imparts a sculpted sound that is both aggressively punchy and silky smooth. So don't be afraid to turn this eq up, Electra is designed to literally bend things beautifully!



### MASTER OUTPUT GAIN

Boost or attenuate the gain on the signal as it exits Electra DSP.



**HPF / LOW SHELF** This combination HPF/Low Shelf pair is actually two separate controls. The 12dB/Octave HPF filter with a resonant 'bump' is always active (unless bypassed by clicking either 'HPF' button), and can be set anywhere from 25Hz - 400Hz with either the black outer knob or the orange slider.

The Low Shelf has a fixed corner frequency of 90Hz, and is controlled by the chrome inner knob or green slider. Up increases a sense of 'Thickness' in your sound, and down will reduce the perception of proximity to the sound.

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## DEEPER INTO THE CONTROLS

### TIPS AND TRICKS

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#### VINTAGE DRUM SMACK

Electra is arguably the most colorful eq in the world when it comes to adding a retro, papery 'note' to kicks and 'crack' to snares. Experiment with aggressive (9db) boosts on frequencies you wouldn't normally think to boost, especially in the 300-500Hz range (where most people cut), and 600-900Hz range (where most people do nothing). There's a \*lot\* of character in those frequency spaces, and having one element or mic in a drum mix with those frequencies pushed hard can add a very cool, very non-modern grain to an otherwise sterile or generic drum sound.

#### MORE ANALOG PLEASE

One of our favorite Electra tricks is to use a generous cut on the 6dB/octave High Shelf as a 'controlled lowpass' to reduce ultra-high frequency content and smooth out, aka 'de-digitize' the sound. A 6-9dB cut as high as 20k or as low as 13k, combined with a 3k, 4k, or 5k boost on the High Middle band, can add a more vintage presence to sounds while giving the top a softer, more old-school texture.

#### ULTRA TIGHT BOTTOM

The Electra's gentle high pass filter, tuned with a slight bump at the rolloff frequency, is perfect for tightening unruly low end. Setting to 40Hz or 60Hz, combined with a modest 3-6dB boost on the Low Middle band at the same (or slightly lower) frequency, gives a sound more low end 'support' while tightening and cleaning up the deepest frequencies which, left uncontrolled, tend to reduce the loudness, brightness, and punch of a mix.

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## DEEPER INTO THE CONTROLS

### PRESET MANAGEMENT



**BANK** Banks are handy ways to organize groups of presets into categories you create. To select a bank, click directly on the current bank name and a dropdown list will appear. Select New to add a new bank to this list. Select Rename to rename the current bank, editing directly on the name itself. Select Delete to delete the current bank. **WARNING** deleting a bank deletes ALL of the presets within that bank, and cannot be undone. A warning dialog will appear to confirm you wish to do this, please choose carefully!

**PRESET** A preset stores the state of every knob and switch on the EQ itself. Use these to save and recall your favorite settings, trade settings with other Electra DSP users, and import new banks from UBK whenever he can remember to do such things. *Note: Bypass & Oversampling states are not stored in Presets.*

To select a preset, click directly on the current preset name and a dropdown list will appear. Select Save As to create a new preset in the current bank. Select Save to overwrite the current preset.

**STATUS LED** This light indicates whether the current state of Electra DSP's controls is identical to the settings in the currently active preset. Green indicates that the Electra DSP's settings and the preset are identical, Red indicates that controls have been changed since the preset was loaded. **WARNING** If you load a different preset when the Status LED is Red, you will lose the changes you've made to the current preset.

# ELECTRA DSP

## DEEPER INTO THE CONTROLS

### DSP / AUXILIARY CONTROLS



**BYPASS** Bypasses Electra DSP

**OVERSAMPLING ON/OFF** Toggling this switch defeats Kush's custom, proprietary oversampling algorithm and filters, which frees up critical CPU cycles. This is a session-wide preference, so toggling the Oversampling for one Electra DSP automatically toggles it for every other Electra DSP in the session. Electra DSP's code has been highly optimized so this control can generally be left On in all but the most demanding sessions.



**SLIDER TOGGLE** If you'd rather click and move the gain and freq controls up and down (rather instead of than left-to-right), click here.



**INFO** For a handy reminder of what all these buttons down here are meant for, click here.



**PHASE FLIP** Inverts the polarity of the signal as it leaves Electra DSP.



**HPF BYPASS** Bypasses ONLY the High-Pass Filter while leaving the EQ filters active.

### WHAT'S NEXT?

#### GOT QUESTIONS?

We've got answers! Head to [www.thehouseofkush.com/support](http://www.thehouseofkush.com/support) for all your plugin support needs.

#### INTO ANALOG?

Ready to pull the trigger on some of Kush's Analog options? Head to [www.thehouseofkush.com/analog](http://www.thehouseofkush.com/analog) to read up on all the latest Kush has to offer. Watch videos, hear demos, and drool over the fantastic warmth and detail only Analog can bring to your sound.

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