CRYSTAL CODEX

SWELL AMPLIFICATION
swellamps.com

POWER

9V DC, center-negative, 2.1mm barrel. Current draw is 95 mA—use a supply rated 125 mA or higher. Most multi-output supplies have per-output ratings of 100 mA, which may impact performance. Incorrect voltage or polarity may damage the pedal and void the warranty.

CONNECTIONS

All jacks are top-mounted. INPUT (right), OUTPUT (left), 9V DC (center).

CONTROLS

Top row, left to right:

BASS, MIDDLE, TREBLE— standard 3-band EQ.

Bottom row:

PRESENCE — upper-harmonic shaping and pick attack.

VOLUME — output level (start low!).

GAIN — overdrive amount, from edge of breakup to full high gain saturation.

VOICING SWITCH

The toggle below the Presence knob selects three EQ voicings. Each reshapes internal bass emphasis, midrange center frequency, and midrange width.

- ○ Extended low end, more focused and aggressive midrange.
- ◑ Most neutral starting point. Crank the mids for a British sound.
- ● Tight bass, more vocal midrange center — slightly brighter overall.

These are tendencies. All three positions cover a wide range depending on your knob settings, guitar, and amp.

NOISE GATE (OPTIONAL)

The small NG knob near the footswitch sets the gate threshold. Fully counter-clockwise is OFF. The gate's control voltage is derived from your raw guitar input, so it reacts very fast—but higher threshold settings will cut into quiet playing, volume swells, and pickup roll-off. Set it only as high as needed to mute noise between phrases. The gate can be factory-installed in any Crystal Codex—contact us for details.

BYPASS & SWITCHING

Relay true bypass with silent JFET muting. The SWELL logo illuminates when the pedal is active.

QUICK START

Set Bass, Middle, Treble, Presence, and Gain to noon. Volume to 9 o'clock. Voicing to ◑. Adjust from there.

WARRANTY

Two-year warranty against defects in materials and workmanship for the original purchaser. Contact us to arrange warranty service—buyer pays inbound shipping, we cover the return.

SPECIFICATIONS

Circuit: All-analog, multi-stage JFET overdrive

Internal Voltage: 34V (stepped up from 9V DC)

Small Signal Gain: 115 dB+

Bypass: Relay true bypass with silent switching

Power: 9V DC / center-negative / 2.1mm / 125 mA min.

Dimensions: 5 x 2.5 x 2.5”

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FIELD NOTES

from the Compendium of Solid-State Arcana

Crystallum Siliconus Overdrivium

A rare and enigmatic artifact of the semiconductor age, possessing the arcane ability to transmute a pristine electric guitar signal into lush, harmonic-rich overdrive through the precise manipulation of depletion fields inside the crystalline lattice structures known as JFETs.

Habitat: *Pedalboard.*

Behavior: *Docile at low gain settings. Increasingly unruly when provoked. Known to induce repetetive neck bending in nearby humans.*

Diet: *Milliamperes. Will refuse to perform on under-spec power supplies.*

Distinguishing Marks: *Luminous sigil on dorsal surface. Six rotary protuberances. One vestigial toggle. Emits a violet glow when activated.*

Conservation Status: *Handmade. Each specimen individually voiced and tested in Phoenix, Arizona.*

Caution: *Prolonged exposure may induce irreversible tone lust in the operator.*

Lifecycle: *Remarkably long-lived. The silicon lattice does not degrade with age. Unlike its vacuum-tube cousins, the Crystal Codex requires no periodic replacement of internal organs.*

Symbiosis: *Pairs well with tube amplifiers set clean, but has been observed coexisting peacefully with solid-state hosts.*

ABOUT SWELL AMPLIFICATION

Swell Amplification designs and builds analong & digital guitar electronics in Phoenix, AZ. Every circuit is designed from scratch: no clones, no borrowed topologies. We obsess over the details so you can obsess over the tone.

INSIDE THE CRYSTAL CODEX

The Crystal Codex is a multi-stage JFET gain engine—no diode clipping, No DSP. The signal path is pure analog from input to output.
Internal boost circuitry steps your 9V supply up to 34V, giving the JFETs the headroom they need to be dynamic, touch-sensitive, and harmonically rich across the full gain range.

ALSO FROM SWELL

Dulcet 30 30W all-tube amplifier with two channels, dual reactive attenuators, and spring reverb

Mirror IR Ultra Low Latency IR Loader

CONTACT

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