



HumNyX SIGIL

VST3 Plugin — Reference Guide & Preset Documentation

Version 1.0

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The Meaning of HumNyX

HumNyX encodes deep layers of meaning into every sound:

- **HUM** — from "Hummel" (German for bumblebee). The buzzing, droning vibration of creation. Sub-harmonic resonance, low-frequency weight, overtone richness.
- **NYX** — the primordial Greek goddess of Night (Nyx). Dark saturation, shadowy atmosphere, depth processing. So powerful even Zeus feared her.
- **X** — the unknown variable. Experimental modulation, unpredictable character, personal identity.

Hidden layer: ONYX — the jet-black gemstone. Sonic solidity, grounded low-end, mental strength and resilience.

HumNyX = The dark, resonant hum of creation from the primordial void, shaped by an unknown force into something uniquely powerful.

Overview

HumNyX SIGIL is a personal signature sound engine — it imprints the HumNyX sonic DNA onto any audio source. Four purpose-built modules capture a specific tonal palette: the resonant depth of HUM, the dark character of NYX, the unique vocal mark of SIGIL, and the organic breath of FLUX. A single master macro — SIGIL — sweeps from clean bypass to full HumNyX identity in one gesture. Put it on every track, and your productions share a cohesive, recognizable sonic fingerprint.

"Stamp your sound with the mark of the void."

Signal Flow

Audio enters the plugin and passes through each stage in the following order:

- **INPUT GAIN** — Adjusts the signal level entering the processing chain (± 12 dB range)
- **HUM** — Sub-Harmonic Generator + Resonant Drone Filter (builds the low-frequency foundation)
- **NYX** — Dark Saturation + Tilt EQ + Glue Compression (imparts midnight character)
- **SIGIL** — Formant Shift + Harmonic Exciter + Micro-Detune (stamps the unique identity)
- **FLUX** — LFO Modulation Engine (animates parameters across all modules for organic movement)
- **MIX** — Dry/Wet blend with equal-power crossfade
- **OUTPUT GAIN** — Final level control (± 12 dB range)

Why this order: HUM builds the low-frequency foundation first. NYX saturates and darkens the enriched signal, compressing harmonics into a dense, midnight-black character. SIGIL stamps the unique formant/harmonic/width identity on the fully characterized signal. FLUX breathes life into all three modules simultaneously.

HUM — The Resonant Foundation

Color: Amber/Gold | Parameters: 4

"The bumblebee's buzz. The droning zither. The fundamental vibration beneath everything."

This module adds sub-harmonic weight and resonant overtone color. It makes thin sounds massive and gives every source a deep, grounded presence. The Sub-Harmonic Generator detects the input's fundamental via zero-crossing detection on a band-limited signal, then generates a sub-octave tone using wave inversion. The Tone parameter shapes this sub-octave through a variable waveshaper. Separately, a State Variable Filter (SVF) in bandpass mode creates the resonant drone, with Q ranging from gentle (1.0) to near-self-oscillation (15.0) based on the Drone knob.

How It Works

| Parameter | Description |
|--------------|---|
| Sub | 0–100% (default 30%). Sub-octave harmonic level. Generates a tone one octave below the detected fundamental. Adds weight and low-frequency power to any source. |
| Drone | 0–100% (default 20%). Resonant filter emphasis. A tuned bandpass peak that adds a buzzing, humming overtone character — like a sympathetic string or bagpipe drone. |
| Freq | 30–300 Hz (default 80 Hz). Center frequency for the resonant drone filter and sub-harmonic detection range. Tune this to match the fundamental of your source material. |
| Tone | -1 to +1 (default -0.2). Shape of the sub-harmonic waveform. Negative = rounder/softer (sine-like). Positive = buzzy (square-like harmonics, adds odd harmonics). |

Use Cases

- **Sub 10%, Drone 5%:** Barely there warmth. Adds weight without being obvious. Perfect for vocals and acoustic instruments.
- **Sub 30%, Drone 20%:** The default sweet spot. Noticeable low-end presence and subtle resonant hum. Musical on almost any source.
- **Sub 50%, Drone 35%:** Heavy foundation. Deep sub-harmonic weight with prominent drone character. Great for bass, kicks, and dark pads.
- **Sub 80%, Drone 60%:** Extreme. Massive sub-octave power with near-self-oscillating resonance. Sound design territory.

NYX — The Dark Character

Color: Deep Purple | Parameters: 4

"The primordial night. The veil of black mist. The shadow that gives depth to light."

This module imparts the signature dark, dense, warm character. It combines tube-style saturation, a darkness-inducing tilt EQ, and subtle glue compression — the "midnight processing" that makes everything sound like it was recorded at 3am in a candle-lit studio. Three waveshaper algorithms are selectable via Color: Warm uses asymmetric tanh for even harmonics. Midnight uses subtle Neve-inspired tape saturation. Obsidian uses symmetric soft-clipping for aggressive odd harmonics. The Tilt EQ is a first-order shelving filter pivoting at 800 Hz. The Compressor is feed-forward with soft knee, fixed threshold at -18 dBFS, ratio 1:1–4:1 based on Density, with program-dependent release.

How It Works

| Parameter | Description |
|-----------------|--|
| Shadow | 0–100% (default 40%). Saturation drive. Tube/tape-style harmonic distortion. Low values = subtle warmth. High values = aggressive darkness. |
| Darkness | 0–100% (default 55%). Tilt EQ amount. Simultaneously boosts lows and cuts highs. 0% = flat response. 100% = heavy low boost + steep high-frequency rolloff. |
| Density | 0–100% (default 35%). Compression amount. Gentle glue compression that thickens the signal. 0% = no compression. 100% = heavy squash. |
| Color | Warm / Midnight / Obsidian (default Midnight). Saturation character. Warm = even harmonics (tube-style). Midnight = mixed harmonics (tape-style). Obsidian = odd harmonics (transformer-style, aggressive edge). |

Use Cases

- **Shadow 15%, Darkness 25%, Density 10%, Warm:** Subtle analog warmth. Adds body and smoothness without obvious processing. Great for mastering.
- **Shadow 40%, Darkness 55%, Density 35%, Midnight:** The default sweet spot. The signature "midnight" character — dark, warm, dense, and musical.
- **Shadow 70%, Darkness 80%, Density 50%, Obsidian:** Aggressive dark processing. Heavy saturation with steep tilt and strong compression. Industrial, dark electronic.
- **Shadow 85%, Darkness 90%, Density 70%, Obsidian:** Extreme. Maximum darkness. Sound becomes thick, heavy, almost black. Use for extreme sound design.

SIGIL — The Unique Mark

Color: Electric Cyan | Parameters: 4

"The formant of your voice. The harmonic fingerprint. The mark that says 'this is HumNyX.'"

This module stamps three subtle but powerful effects that create a unique, recognizable sonic identity: formant shifting (gives every sound a specific "vocal character"), harmonic excitation (adds a specific bright harmonic sparkle), and micro-pitch detuning (creates lush, otherworldly stereo width). Formant Shift uses a granular pitch-shifter (40ms grains, Hann window, 4x overlap) to move spectral formants without changing pitch. Harmonic Exciter isolates Presence and Air bands via SVF bandpass, applies subtle tanh saturation, and mixes back in parallel. Micro-Pitch splits the signal into L/R paths with opposite pitch offsets and delay.

How It Works

| Parameter | Description |
|---------------|--|
| Voice | -12 to +12 semitones (default -3). Formant shift amount. Reshapes the spectral envelope without changing pitch. Negative = deeper/larger resonant body. Positive = smaller/brighter. At -3, everything sounds slightly deeper, richer, more authoritative. |
| Spark | 0–100% (default 25%). Harmonic exciter amount. Adds upper harmonics in two bands: Presence (2–6 kHz) for clarity, and Air (8–16 kHz) for sparkle. Creates the HumNyX "sheen." |
| Spread | 0–50 cents (default 8 cents). Micro-pitch detune. Left channel detuned down, right channel detuned up. At 8 cents, creates the classic Eventide MicroPitch widening effect — lush, immersive stereo. |
| Delay | 0–30 ms (default 5 ms). Stereo micro-delay offset between L/R detuned signals. Adds depth and dimension to the stereo spread effect. |

Use Cases

- **Voice -1, Spark 8%, Spread 3, Delay 3:** Barely there signature. Subtle depth and slight widening. Good for mastering or "always-on" bus processing.
- **Voice -3, Spark 25%, Spread 8, Delay 5:** The default — the HumNyX identity. Deeper character, present harmonics, lush width. Musical on everything.
- **Voice -5, Spark 40%, Spread 15, Delay 10:** Heavy signature. Dramatically deeper formants, bright sparkle, wide stereo. For lead elements and featured sounds.
- **Voice -7, Spark 60%, Spread 25, Delay 15:** Maximum mark. Extreme formant shift, aggressive excitation, very wide. Sound design and experimentation.

FLUX — The Living Breath

Color: Emerald Green | Parameters: 3

"The element that can't be copied. The slow, organic drift that makes static sounds feel alive."

FLUX is a modulation engine that subtly animates parameters across all three modules. It prevents the processing from sounding static. Perlin noise (Drift mode) ensures no two moments sound identical. The HumNyX sound feels "breathing" without being mechanical. Listeners perceive organic life without identifying why.

How It Works

| Parameter | Description |
|--------------|--|
| Rate | 0.01–2.0 Hz (default 0.15 Hz). LFO speed. Very slow = glacial drift. Faster = rhythmic pulse. At 0.15 Hz, one full cycle takes about 7 seconds — slow enough to feel organic. |
| Depth | 0–100% (default 15%). Modulation intensity. How much the LFO affects target parameters. Low values create subtle drift. High values create dramatic, obvious movement. |
| Shape | Sine / Triangle / Random / Drift (default Drift). LFO waveform. Sine = smooth cycling. Triangle = linear ramping. Random = sample-and-hold with smoothing. Drift = Perlin-noise-like smooth random noise that never repeats — the most organic option. |

Modulation Targets

When Depth is above 0%, FLUX modulates the following parameters across all modules:

- **Drone Freq:** $\pm 15\%$ of current value — resonant filter slowly sweeps, creating alive, buzzing character
- **Darkness:** $\pm 10\%$ of current value — tonal darkness subtly breathes, brighter then darker
- **Voice:** ± 1.5 semitones from current — formant gently shifts, sound "morphs" organically
- **Spread:** ± 5 cents from current — stereo width slowly pulses, creating spatial movement

Master Controls

SIGIL Macro

The hero control (0–100%, default 0%). Sweeps from clean bypass to full HumNyX signature in one gesture. When adjusted, it overrides individual module knobs with interpolated values:

| Value | Description |
|-------|---|
| 0% | Bypass — clean, untouched |
| 25% | Subtle warmth — "is something different? Sounds better..." |
| 50% | The Sweet Spot — full HumNyX identity, musical and balanced |
| 75% | Heavy — unmistakably processed, dark, massive, wide |
| 100% | Maximum — extreme HumNyX character, for sound design |

At 50%: Sub 30%, Drone 20%, Shadow 40%, Darkness 55%, Density 35%, Voice -3, Spark 25%, Spread 8, Flux Depth 15%. This is the "always-on" setting.

Input / Output / Mix

| Parameter | Description |
|-----------|--|
| Input | -12 to +12 dB (default 0 dB). Input gain trim before processing. |
| Output | -12 to +12 dB (default 0 dB). Output gain trim after processing. |
| Mix | 0–100% (default 100%). Dry/wet blend with equal-power crossfade. |

Factory Presets

HumNyX SIGIL ships with 10 factory presets designed to showcase the full range of the plugin. Each preset is accessible via the interface's preset browser.

| # | NAME | CHARACTER | BEST FOR |
|---|-------------------|---|---|
| 0 | Clean | Bypass / blank slate | Starting point for custom dialing |
| 1 | Whisper | Barely there warmth and weight | Delicate acoustic sources, vocals, pads |
| 2 | Imprint | Light HumNyX character | General mixing — subtle but recognizable sonic stamp |
| 3 | Marked | THE default — "always-on" HumNyX identity | Put this on every track. Balanced, musical, signature |
| 4 | Branded | Heavy HumNyX character | Lead synths, bass, drums — unmistakably yours |
| 5 | Obsidian | Aggressive, dark, buzzy — the warrior stone | Dark electronic, industrial, aggressive bass |
| 6 | Nebula | Dreamy, wide, sparkling — cosmic shimmer | Ambient pads, ethereal vocals, background textures |
| 7 | Abyssal | Maximum depth — deep, dark, massive | Sub-bass design, dark ambient, horror scoring |
| 8 | Void Mark | HumNyX + extreme width and movement | Leads, featured elements, stereo field dominance |
| 9 | Full Sigil | Everything strong — the full stamp | Sound design, special FX, creative experimentation |

All preset values can be adjusted after loading. The presets are starting points — dial them in further to fit your specific material and creative vision.

Installation

Follow these steps to install HumNyX SIGIL on your system:

- 1. Download the HumNyX SIGIL package and extract. You will find a folder named "HumNyX SIGIL.vst3".
- 2. Copy the entire .vst3 folder to: **C:\Program Files\Common Files\VST3**
- 3. Open your DAW and rescan plugin directories. SIGIL should appear in your VST3 effects list.

Tips & Techniques

Getting Started

- Start with the "Marked" preset — it's calibrated as the "always-on" HumNyX identity. Put it on every track for cohesive character.
- The SIGIL macro at 50% is the sweet spot for mixing. Adjust individual knobs only when you need per-element customization.
- Use "Whisper" on your master bus for gentle, unifying cohesion across the entire mix.

Per-Element Recommendations

- **Kick / Bass:** Increase Sub and Drone, decrease Spark. Set Voice to -5 for deeper weight.
- **Synth Leads:** Increase Spark and Spread for bright, wide presence. Voice at -2.
- **Pads / Atmospheres:** Max Flux Depth, use Drift shape. High Darkness for dark warmth.
- **Vocals / Melodic:** Subtle Voice (-1 to -3), moderate Spark. Low Spread to keep centered.
- **Drums / Percussion:** Higher Density for glue. Low Flux Depth. Shadow on Obsidian for bite.
- **Master Bus:** "Whisper" preset — very subtle, just enough to unify.

Full HumNyX Production Stack

For maximum signature sound, chain all four plugins:

- 1. **HumNyX SIGIL** (on "Marked") — stamps character **FIRST**
- 2. **HumNyX Multi-FX Engine** — adds texture/degradation
- 3. **HumNyX MOTION** — adds rhythmic movement
- 4. **HumNyX VOID** — adds cinematic space **LAST**

Creative Techniques

- Automate the SIGIL macro for dramatic build-ups: sweep from 0% to 75% during a drop for instant character explosion.
- FLUX on Drift shape with low Rate (0.05 Hz) creates ultra-slow evolution — perfect for long ambient pieces.
- Try negative Voice values (-6 to -12) for dramatic vocal deepening effects, or positive values (+5 to +12) for ethereal brightening.
- Stack two instances: one with Voice at -3 and one at +5 for extreme harmonic richness.

System Requirements

| Specification | Details |
|--------------------|---|
| Format | VST3 |
| Platform | Windows 10+ (64-bit) |
| DAW Support | FL Studio, Ableton Live, Reaper, Cubase, Studio One, Bitwig, and any VST3-compatible host |
| CPU | Low — lightweight enough for every track in a session (< 5% single core at 44.1kHz) |
| Latency | ~2ms (formant shift grain overlap + oversampling) |
| RAM | Minimum 4 GB recommended |

HumNyX SIGIL

Designed and Developed by HumNyX
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