# High Flyer Instruction Manual

Welcome to High Flyer

High Flyer is a next-generation phaser plugin designed to bring rich, evolving movement to your sound with an innovative approach to modulation. Featuring a dual-stage phasing engine, High Flyer offers deep, sweeping textures that can range from smooth and subtle to wild and resonant. Its intuitive interface provides precise control over rate, depth, feedback, and a unique "Lift" parameter that adds harmonic shimmer by dynamically shifting phase relationships. Whether you're after vintage warmth or futuristic warbles, High Flyer delivers with a pristine, high-fidelity engine that retains the character of your original signal while enhancing it with depth and motionZ

What sets High Flyer apart is its flexible modulation system, allowing for intricate rhythmic patterns, syncopated sweeps, and even randomized phase shifts for unexpected sonic movement. The built-in LFO can be tempo-synced or free-running, with multiple waveforms and a dedicated envelope follower for dynamic response. With a range of presets inspired by classic phasers and modern experimental textures, High Flyer is perfect for guitarists, synth enthusiasts, and producers looking to add expressive dimension to their tracks. Whether you're crafting spacey synth leads, deep psychedelic pads, or tight, rhythmic grooves, High Flyer elevates your sound to new heights.

Operation & Controls

Menu Bar
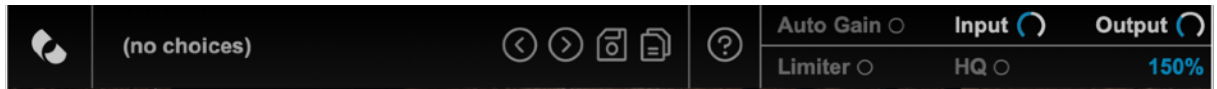
Cut Classic Logo: Click to reveal the about screen which features the current version number and credits.

Next Preset: Click to go to the next preset.

Previous Preset: Click to go to the previous preset.

Save Preset: Click to reveal your operating system dialog for saving presets. For presets to appear in High Flyer's browser they must be saved in the following locations …

macOS: /Application Support/Cut Classic/High Flyer

Windows: Roaming/Data/Cut Classic/High Flyer

Open Preset Folder: Click to reveal the High Flyer preset folder on your hard drive.

Help Tool Tips: Click to display tool tips when hovering over controls on the user interface.

Auto Gain: Adjusts the Master Output level to match the incoming volume.

Input: Input level for all effects, adjust to increase or decrease headroom.

Output: Output trim knob adjusts post effect volume for the plugin.

Limiter: Enables a limiter on the final output to prevent clipping.

HQ: Enables oversampling to reduce aliasing in all relevant sections of the plugin.

Zoom Level: Set the zoom size of the User Interface between 50-200%.

Big Knobs

Resampler Mix: Sets the ratio between the wet and dry mix of the Resamplelr effect. This is a mirror of the 'mix' control found on the Resampler section of the Degrade module in the Advanced Controls.

Preamp Mix: Sets the ratio between the wet and dry mix of the Preamp effect. This is a mirror of the 'mix' control found on the Preamp section of the Degrade module in the Advanced Controls.

Phase Mix: Sets the ratio between the wet and dry mix of the Phase effect. This is a mirror of the 'mix' control found on the Phase section of the Phase module in the Advanced Controls.

Phase Rate: Sets the rate of the phaser effect. This is a mirror of the 'Rate' control found on the Phase section of the Phase module in the Advanced Controls. Note the Phaser has three distinct rate modes. These modes are exclusively set in the Advanced Controls and the big knob will respect the mode set in that section.

Enhance Mix: Sets the ratio between the wet and dry mix of the Preamp effect. This is a mirror of the 'mix' control found on the Preamp section of the Degrade module in the Advanced Controls.
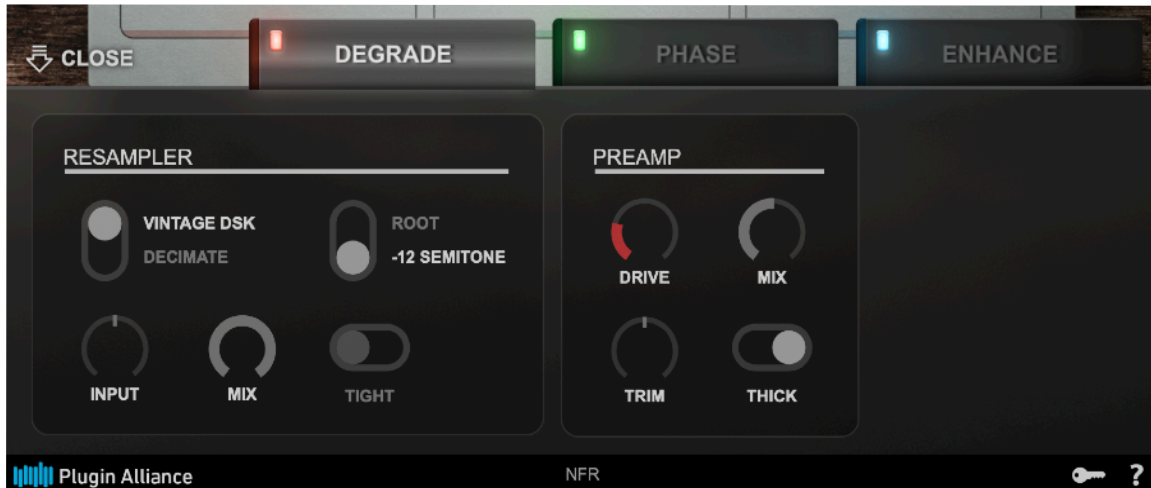
Retroize Amount: Sets the ratio between the wet and dry mix of the Retroize effect. This is a mirror of the 'mix' control found on the Retroize section of the Enhance module in the Advanced Controls.

Advanced Controls
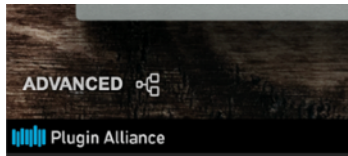
High Flyer features an advanced section which reveals additional controls for each of it's three modules; Degrade, Phase and Enhance.

Degrade Module

The degrade module has two distinct sections for degrading the signal before the phaser module; Resampler, based on early digital circuitry and Preamp based on the transformer saturation of an analog preamp.

Resampler Module

Sampler

Sampler Mode Toggle : The Sampler has two distinct modes which can be toggled between. Vision DSK is an emulation of a famous mid 1980s 8-bit sampler and Decimate is a Digital sample rate reduction with intentional aliasing artifacts.

Sampler Root / -12 Semitone Toggle: Only available in Vision DSK Mode, 'Root' is the original pitch of a sound and '-12 Semitone emulates' the artifacts of sampling at 2x speed and pitching back down without any pitch change.

Sampler Input: Only available in Vision DSK Mode which is modelled on the volume dependant interactions of vintage samplers. Overdrive for compression & saturation or under drive for low bit artifacts and gating.

Mix: Amount of decimation mode sample rate reduction. Also mirrored on the 'Resampler' parameter on the Big Knobs page.

Tight Toggle: When enabled, emulates chopping the end point of the sample tightly.

Preamp

Drive: Modelled on the tone and saturation of overdriving a preamp transformer.

Mix: Wet/Dry mix control for the Preamp module. Also mirrored on the 'Preamp' parameter on the Big Knobs page.

Trim: Additional output control after the preamp module to compensate for any changes in volume caused by the Preamp Drive parameter.

Thick Toggle: When enabled, applies a saturation to the Low frequencies for additional weight.

Phase Module

The phase module is the most complex single section in High Flyer and has two distinct sections for adjusting the Phaser. Type and Phase

Type

Type Toggle: High Flyer has two distinct phaser types; Classic and Endless. Endless is a traditional phaser topology for classic sounding effects. Endless is newly designed phaser based on Shepard tone modulation for creating an endless psychoacoustic illusion.

Endless Direction Toggle: Only available in the Endless Mode. This parameter toggles the direction of the phase appear as if it's endlessly rising or falling in frequency.

Phase

Mix: Wet/Dry mix control for the Phase module. Also mirrored on the 'Phase' parameter on the Big Knobs page.

Feedback: Amount of feedback resonance applied to the phase circuit.

Rate: Adjusts the speed of the phase modulation. Also mirrored on the 'Rate' parameter on the Big Knobs page.

Rate Toggle: Set the option of Phase rates between three options; Slow, Fast and BPM Synced. Note that this parameter can only be set from the Advanced Controls and the Phase Rate on the big knobs will always reflect the options set via the Rate Toggle.

Stages: Sets the number of stages utilized by the phaser. Lower values emulate classic analog pedals while higher values recreate the sound of 90s FX rack units.

Drive: A level compensated gain that saturates the internal wet signal of the phaser.

Center: Adjusts the center frequency of the phaser.

L-R Offset: Offsets the modulation phase of the left and right channel.

Enhance Module

The enhance module has three distinct sections for enhancing the output signal after the phaser. Expand, Retroize and Candy.

Expand

Dimension: A dimension expander effect that increases the stereo filed while still maintaining full mono compatibility.

Space: A tight mono compatible modulated space similar to the early reflections found on a reverb.

Size: Time multiplier for the Dimension & Space effects. Lower values create a tighter modulation and higher values create more a more spacious effect.

Retroize

Amount: Recreates the complex interactions of dynamics limiting and resonant frequency peaks found in highly sought after vintage equipment.

Tone: Adjusts the resonant frequency center points of the Retroize effect.

Candy

Amount: A parallel high frequency sheen and stereo width, similar to a harmonic exciter.

Range: Toggles between high and mid frequency enhancement for Candy effect.