

# XOY DELAY 1.0

Stereo Delay & Spatial Texture Processor

XOY DELAY is a character-driven delay plugin designed for musical space, movement, and depth. It is not a clinical, feature-heavy delay — it is a focused tool for rhythmic echoes, stereo motion, and ambient washes.

The design emphasises **feel, timing, and tone**, combining classic delay concepts with subtle analog-inspired behaviour and modern workflow.

## Signal Flow

The processing order is intentional and fixed:

Input → Delay Engine (per mode) → Feedback Network → Tone Shaping & Diffusion → XOY Analog Flavor → Mix → Output

The delay engine reacts musically to gain staging and feedback, encouraging interaction rather than precision correction.

## Delay Modes

XOY DELAY provides **three distinct modes**, each with its own internal routing and character:

### Mode I — Simple Delay

- Clean, straight digital delay
- Focused repeats with clear timing
- Ideal for slapback, rhythmic delays, and subtle space

### Mode II — PingPong

- Stereo bouncing repeats
- Cross-feedback creates width and motion
- Excellent for guitars, synths, and vocal throws

### Mode III — Wash

- Diffused, smeared delay textures
- Uses multi-stage all-pass diffusion
- Designed for ambient tails and evolving soundscapes

All modes share the same core controls but differ internally in stereo behaviour and diffusion.

## Core Controls

### Time / Division

Sets the delay time, either synced to host tempo or free-running in milliseconds. Designed for musical subdivisions rather than extreme precision.

### Feedback

Controls the amount of signal fed back into the delay line.

- Low values = short echoes
- High values = long tails and evolving textures
- Internally limited to prevent uncontrolled runaway feedback

### Mix ( Big Knob )

Controls the dry/wet balance.

- 0% = dry signal only
- 100% = fully wet delay output

## Tone & Character

### Diffusion (Mode III)

Softens transients and spreads energy over time, transforming repeats into a wash rather than discrete echoes.

### Internal Filtering

- High-pass filtering around the low end to prevent buildup
- Low-pass filtering to soften high-frequency repeats
- Applied inside the feedback path for natural decay

### WOW Modulation

A slow, subtle modulation adds gentle pitch movement to repeats, avoiding static or sterile echoes.

## XOY Sound Signature

Like all XOY plugins, the **XOY DELAY** includes **XOY Analog Flavour** — a subtle, always-on analog coloration inspired by vintage studio hardware. It adds depth, warmth, and presence, even at low mix settings or with the effect bypassed.

## Format & Compatibility

XOY DELAY is available as:

**Audio Unit (AU)** — Logic Pro, MainStage, etc.

**VST3**

macOS 12 or newer is recommended.

Windows version is not planned at this time.

## Plugin Info

**Plugin name in DAW:** XOY DELAY

**Developer:** XOY Production AB

**Version:** 1.0.0

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## Installation (macOS)

Copy the .component file to:

/Users/YourName/Library/Audio/Plug-Ins/Components

Restart Logic or your DAW.

Look for **XOY DELAY** in your plugin list under Effects.

## Support

**Website:** [xoyproduction.com](http://xoyproduction.com)

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