# Qu-Bit — Nautilus

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[Qu-Bit Nautilus Manual PDF](#)

# Nautilus: Creative Integration in Your Eurorack System

The **Qu-Bit Nautilus** is a deep, highly-configurable, multi-delay voice that pushes far beyond traditional delay applications. After analyzing the manual, here are some creative and experimental ways to use it in your modular synth rig, both with specific modules and by leveraging generic module concepts.

## 1. Sonar Output as Automated Modulation Source

Nautilus's **Sonar Output** can generate a stepped or clocked CV sequence derived from delay network activity. Treat the Nautilus as an "organic" modulation generator:

- **To Animate Filters:**
  Patch Sonar CV out to the cutoff CV in on a resonant filter (e.g., **Mutable Instruments Ripples**, **MA35**).
- **Randomized Sequencing:**
  Feed Sonar into quantizers (e.g., **Intellijel Scales**) for unpredictable melodies or trigger logic modules (e.g., **ALM Pam's New Workout** Gate inputs).

- **Cross-Modulation:**
  Self-patch Sonar back into Nautilus's own CV ins (e.g., to Chroma or Sensors) for feedbacky or evolving delay effects.

## 2. Delay Clocking and Sync Magic

- **Non-standard Clocking:**
  Don't use a simple clock. Instead, feed Nautilus complex or irregular triggers or clock bursts (e.g., from **Make Noise Tempi**, **Pamela's New Workout**, or stochastic gate sources like **Mutable Marbles**). This introduces fluctuating rhythmic patterns and unpredictable delay structures.
- **Rhythmic Modulation:**
  Sequence the Nautilus's delay parameters with clock-derived LFOs or stepped voltages from a **Bézier curve generator** (e.g., **Intellijel Planar2**), making temporal effects dance with your sequence.

## 3. Freeze/Glitch Audio Buffer as Granular Source

- **Glitch Machine:**
  Use a stepped random CV source (**SSSR Labs SM042 Little Nerd** or **WORNG Vector Space**) to modulate Freeze or Resolution. The Nautilus becomes a beat-repeats, microloops, or glitch stutter device.
- **Real-Time Sampling:**
  Use Freeze, then modulate Mix for cuts between full-dry/full-wet, resulting in DJ-like scratch effects or rhythmic chokes.

## 4. Spatial and Spectral FX

- **Wildly Evolving Stereo:**
  With Dispersal, Reversal, and Chroma being CV controllable, patch random or slowly cycling LFOs (Batumi, Stages, Quad LFO,

random stepped S&H) for panoramic stereo clouds, evolving textures.

- **Tone Shaping:**
  Automate Chroma parameters for moving from hi-fi to lo-fi (bitcrushing, wavefolding, filtering) as part of evolving feedback loops—making Nautilus double as a spectral animator.
- **Feedback as FX Send:**
  Patch aux send FX (e.g., **Desmodus Versio**, reverbs, external spring tanks) into Nautilus's feedback path, either with an external feedback loop or by using the module's depth control creatively.

## 5. Delay as a Sequencer or Logic Processor

- **Clock Division/Microtiming:**
  Chain the delay lines in Cascade or Adrift, set Resolution divisions extremely short, and feed percussive sounds or gates through—it becomes a quirky micro-rhythm or logic event generator.
- **Audio/CV Crosspatch:**
  Feed short percussive blips or triggers (from a physical modeling module like **Mutable Rings** or **Noise Engineering Basimilus Iteritas Alter**) into Nautilus, then route Sonar CV as pitch or timbre modulation elsewhere.

## 6. Sound Design Extremes

- **Shimmer/De-Shimmer as Sub-Octave/Octave-Up Platform:**
  Use an LFO or envelope follower (Env Follower from **CMOS** or **ER-301** custom units) to automate shimmer amount dynamically, resulting in string machine or sci-fi swarm effects.
- **Cascade Mode for Infinite Space:**
  Engage infinite Feedback in Cascade or Adrift, slowly add Sensors, and sweep Dispersal. Patch into reverb or granular modules (Clouds, Beads) for ambient washes unlike anything else in your system.

## 7. Self-Modulation and Complex Feedback

- **Patch Sonar to Own CV Ins:**
  Use a buffered multiple or stackcables to send Sonar output into multiple CV inputs on Nautilus (try Sensors, Dispersal, Reversal, or Chroma). This sets up complex internal cross-modulation for organic, evolving responses to your performance.
- **Purge as Performance Reset:**
  Use footswitches (via **Doepfer A-177-2** or similar) to trigger Purge live, erasing echoes and producing dramatic, on-the-fly texture resets in performance.

## 8. Playable Instrument: Tactile Control

- Map Dispersal Attenuverters or input level functions via Nautilus's secondary Tap Menu to optimize for your input (guitar, external synths).
- Use sequencer CV (Voltage Block, Metropolis) into Nautilus params for step-changing delay ecosystems.

## Modular Friends & Additional Combo Ideas

- **Logic Processors (Doepfer A-166, SSF Ultra-Random, Mutable Branches):**
  Combine Sonar or Freeze outputs with these to create advanced trigger routines and event-based CV processing.
- **Audio Rate Modulation:**
  Try sending complex oscillators or drum modules into CV inputs (e.g., Chroma or Resolution) for "FM delay" and wild, audio-reactive glitch.
- **Stereo Field Manipulators:**
  Use post-Nautilus panning/EQ modules (Worng SoundStage, Happy Nerding PanMix Jr) to further sculpt the already spread Nautilus delay fields into huge, panoramic spaces.

## Final Tip:

Don't be afraid to use Nautilus outside the obvious delay role. With its crazy self-patching, freeze/glitch, and Sonar CV logic, it's a modulation source, texture generator, and creative signal blender that can animate your patch in ways few modules can.

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