Qu-Bit — Nebulae

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 [**Qu-Bit Nautilus Manual PDF**](https://manuals.qubitelectronix.co

# Qu-Bit Nautilus Cheat Sheet

## Overview
- **Nautilus** is a multi-tap, complex delay processor with 8 confi
- Inspired by underwater acoustics and sonar systems, it provides s


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## Panel Controls Quick Reference

### Knobs (All CV-controllable, range: -5V to +5V unless noted)
| Knob         | Function
|--------------|----------------------------------------------------
| Mix          | Dry/Wet blend
| Resolution   | Delay clock div/mult from 512nd note to 2 bars
| Feedback     | Delay feedback amount, has assignable attenuverter
| Sensors      | Number of active delay lines (1–4 per channel, up
| Dispersal    | Spacing between delay taps (attenuverter assignabl
| Chroma       | Internal FX type selector (see below)
| Depth        | Amount of effect applied by Chroma
| Reversal     | How many (and which) delay lines are reversed

### Buttons
| Button       | Function
|--------------|----------------------------------------------------
| Freeze       | Locks current delay buffer (max 10s), acts as beat
| Purge        | Clears/bypasses all delay lines
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| Tap | Sets internal clock with tap tempo; hold for second
| Delay Mode | Select: Fade, Doppler, Shimmer, De-Shimmer (pitch u
| Feedback Mode | Select: Normal, Ping Pong, Cascade, Adrift

Tap + (Secondary Functions)
- **Tap + Purge**: Factory reset (input level, delay mode, feedback
- **Tap + Turn Dispersal Attenuverter**: Set input gain (-12dB to +

Chroma FX Types (Color-coded by LED)
- **Blue:** Lowpass Filter ("Oceanic Absorption")
- **Green:** Highpass Filter ("White Water")
- **Purple:** Bitcrusher/SR Reduction ("Refraction Interference")
- **Orange:** Saturation ("Pulse Amplification")
- **Cyan:** Wavefolder ("Receptor Malfunction")
- **Red:** Heavy Distortion ("SOS")

Inputs & Outputs

Audio Inputs
Jack	Function
Left Input	Left audio input, normals to right when right
Right Input	Right audio input

Audio Outputs
Jack	Function
Left Output	Left channel out
Right Output	Right channel out

CV & Gate Inputs
Jack/Control	Function
Mix CV	Modulate dry/wet balance
Resolution CV	Modulate clock division/multiplication

| Feedback CV | Modulate delay feedback attn/invert assignable
| Sensors CV | Modulate number of active delay lines
| Dispersal CV | Modulate spacing between delays, attn/invert a
| Reversal CV | Modulate reversal of delay lines
| Chroma CV | Modulate chroma FX type
| Depth CV | Modulate chroma FX amount
| Clock In | Sync to external clock or gate
| Freeze | Gate to engage buffer freeze
| Purge | Gate to clear buffer

CV & Gate Outputs
Jack	Function
Sonar	Topography-derived stepped CV or gate output

Additional Features

- **USB (Type A)**: For config, updates, and power (500mA max, cons
  - Used with "Narwhal" web configurator [here](https://nautilus.qu
  - Place **options.json** on USB drive and insert to configure.
- **Assignable Attenuverters**: Attenuverter knobs can assign to an
- **Sonar Output Config**: Options: stepped CV, master/variable clo

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Delay Modes
- **Fade**: Smooth time changes
- **Doppler**: Classic delay-time pitch bends
- **Shimmer**: Pitch up (default: +12 semitones, configurable)
- **De-Shimmer**: Pitch down (default: −12 semitones, configurable)

Feedback Modes
- **Normal**: Stereo matches input
- **Ping Pong**: Stereo bouncing
- **Cascade**: Serial chaining of delay lines (ultra long delays)

- **Adrift**: Cascade with alternating L/R routing

Quick Usage Tips

- **Freeze** creates beat repeats; **change Resolution** for rhythm
- **Dispersal + Sensors** alter rhythmic complexity and stereo spre
- **Chroma + Depth** create everything from filtering to heavy dist
- **Reversal** gives reverse delays (per-line, not simple FX).
- **Sonar out** can modulate other modules or self-patch for wild e

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Reference

- **Power**: +12V: 151mA, −12V: 6mA
- **Size**: 14HP, 22mm deep
- **Internal/external clock sync**: Internal (tap), External (clock
- **Audio**: True stereo, 48kHz/24-bit, Burr-Brown converters

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- [Original Nautilus Manual PDF](https://manuals.qubitelectronix.co

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[Generated With Eurorack Processor](https://github.com/nstarke/euro