Qu-Bit — Mojave

- Manual PDF

Qu-Bit Mojave Quickstart Manual (PDF)

Qu-Bit Mojave Eurorack Module Cheat Sheet

Overview:
Mojave is a live granular processor and stochastic event generator. Patch audio in, modulate the parameters, and sculpt grains (tiny audio snippets) for lush textures, glitchy rhythms, and evolving sonic landscapes.

🛠️ Front Panel: Controls and Functions

Function	Type	Description	CV Range	Gate Threshold
Mix	Knob	Dry/Wet balance.	-5V to +5V	
Tap/ Clock	Button/ Jack	Tap sets grain clock. External clock sync.		0.4V
Gen	Button/ Jack	Manually generate grains.		0.4V
Rate	Knob	Grain rate (from very slow to audio rate).	-5V to +5V	

Function	Type	Description	CV Range	Gate Threshold
Distribute	Knob	Rhythmic/random timing of grain trig (glitch/ratchet).	-5V to +5V	
Structure	Knob	Algorithmic harmonic/ melodic displacement (arpeggios, harmonies, etc).	-5V to +5V	
Drift	Knob	Randomizes audio buffer position for each grain.	-5V to +5V	
Whirl	Knob	Spatialization of grains	-5V to +5V	
Gust	Knob	Left = feedback, Right = reverb amount	-5V to +5V	
Size	Knob	Grain size & playback direction (left=reverse, right=forward)	-5V to +5V	
Zone	Knob	Sets buffer position to sample grains from	-5V to +5V	
Speed	Knob	Grain pitch (1V/oct tracking)	-5V to +5V	
Window	Knob	Grain envelope shape selection	-5V to +5V	
Lock	Button/ Jack	Freezes buffer input; grains come from locked buffer only		0.4V

Function	Type	Description	CV Range	Gate Threshold
Freeze	Button/ Jack	Loops current grains, halts new grain creation (buffer keeps refreshing)		0.4V

Modes/Functions (Color Indicated via LED/button):

- **Gen Mode (hold to cycle):**
- *Erode (Blue):* Auto generate grains per clock
- *Shear (Green):* Audio-level triggered grains
- *Chisel (Gold):* Grains only generated by trigger
- **Clock Mode:**
- *Free (Blue):* Rate knob smooth
- *Quantized (Gold):* Rate knob is clock divider/multiplier
- **Sky Mode:**
- *Dawn (Blue):* Major scale; *Day (Green):* Minor; *Dusk (Gold):* Chromatic; *Twilight (Purple):* Free/no scale

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🔌 Inputs & Outputs Reference

Audio Inputs:

- **Left Audio In**
- 10Vpp (AC-coupled)
- Normals to right if right is unpatched
- **Right Audio In**
- 10Vpp (AC-coupled)

Audio Outputs:

- **Left Audio Out**
- 10Vpp (DC-coupled)

- **Right Audio Out**
- 10Vpp (DC-coupled)

CV Inputs (All -5V to +5V Range):

- Mix
- Distribute
- Structure
- Drift
- Whirl
- Gust
- Size
- Zone
- Speed
- Window
- Rate

Gate/Trigger Inputs:

- **Tap/Clock (syncs to external clock):** 0.4V threshold
- **Gen (generate grains):** 0.4V threshold
- **Lock:** 0.4V threshold
- **Freeze:** 0.4V threshold

CV/Gate Output:

- **Dune Out (Default: 0V to +5V CV)**
- Behavior configurable via Narwhal app

USB Port:

- For firmware update/configuration (use Narwhal app/website)

Onboard MEMS Microphone

- Normalled to left input by default (switchable via button combo)

- Modes: Normalled / Off / Summed (cycling via Clock Mode + Lock button)

🧩 Quick-Start Workflow

1. **Plug into a powered case (14HP, 167mA).**
2. **Patch audio in (left, mono, or stereo).**
3. **Set Mix knob for balance.**
4. **Set Rate, Size, Zone, Structure, Whirl, Drift, etc, for desired sound.**
5. **Patch CVs to any parameter for dynamic animation.**
6. **Use Tap to set grain clock or sync to an external clock.**
7. **Mode select as needed (Gen, Clock, Sky).**
8. **Explore Lock/Freeze for creative buffer mangling.**

📝 Extra Tips

- **Input Level Adjustment:** Hold Clock Mode + turn Mix to set mic gain.
- **Mic Modes:** Hold Clock Mode + tap Lock to cycle.
- **Firmware/Settings:** Use USB port and Narwhal config app for customization.

For more info and deep-dives: **Full Manual: qubitelectronix.com**
Generated With Eurorack Processor: https://github.com/nstarke/eurorack-processor