

CEMi Rig

Creating a Live Performance and Production Tool

By Carlos Emilio Llerena

**Who is Carlos
Emilio?**





The Saxophonist



The Electronic Music Producer CEMi

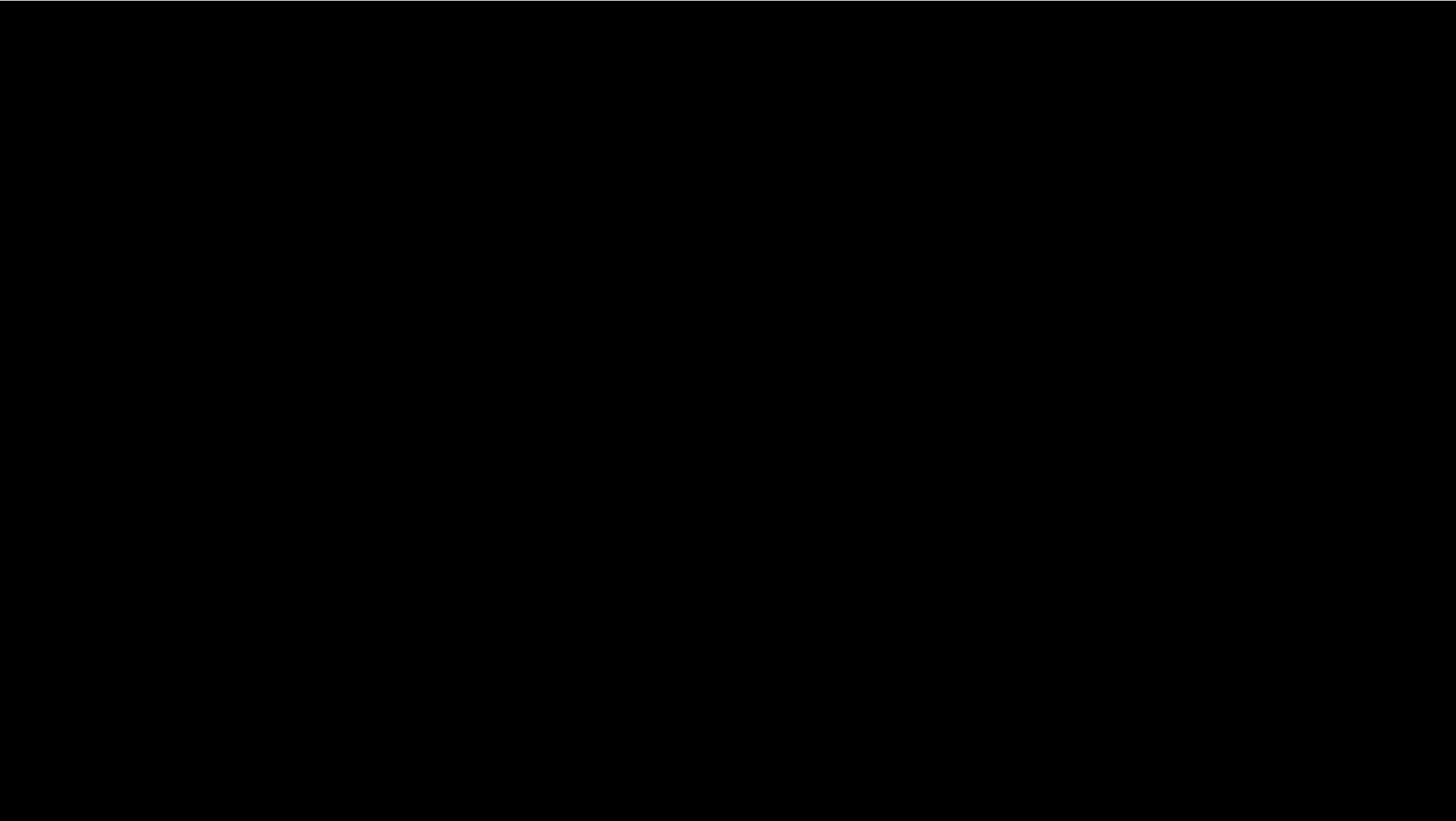
**How to bring my two
musical sides closer?**

Creating a Rig

Characteristics of the Rig

- Interconnectivity
- Portability
- Ease of Use/Comfort
- Live Sampling
- Sound Effects
- Hardware based
- Efficiency

The Set Up



Main Tools



Saxophone

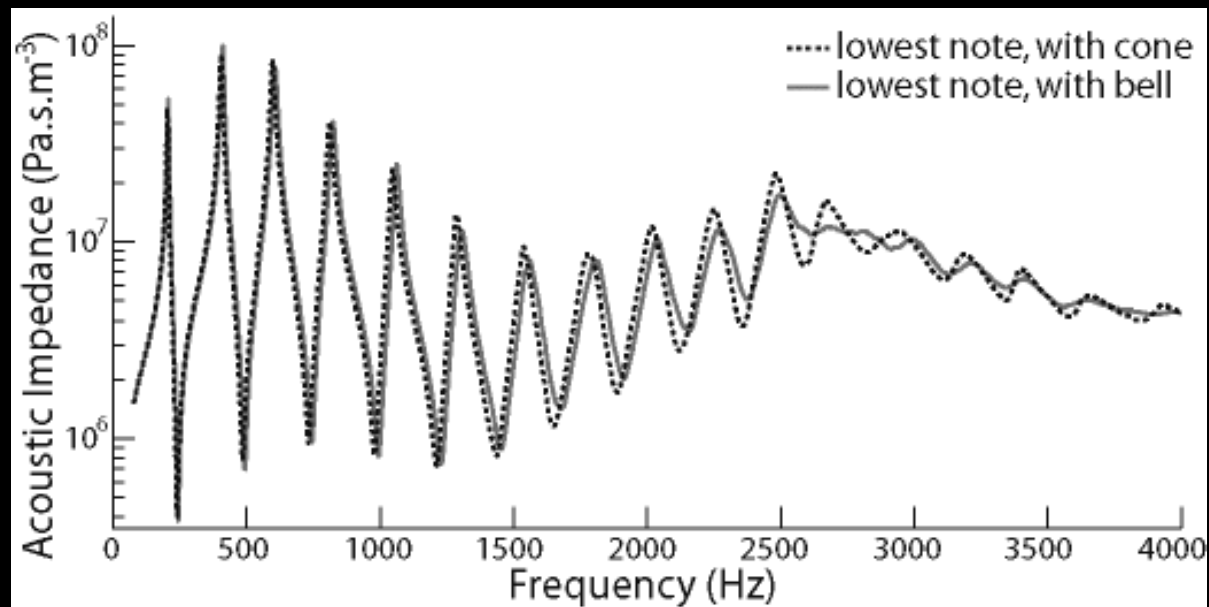
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OP-1 Synth/Sampler

The Saxophone

Sax Frequency Analysis



Source: University New South Wales

Transforming the Sax

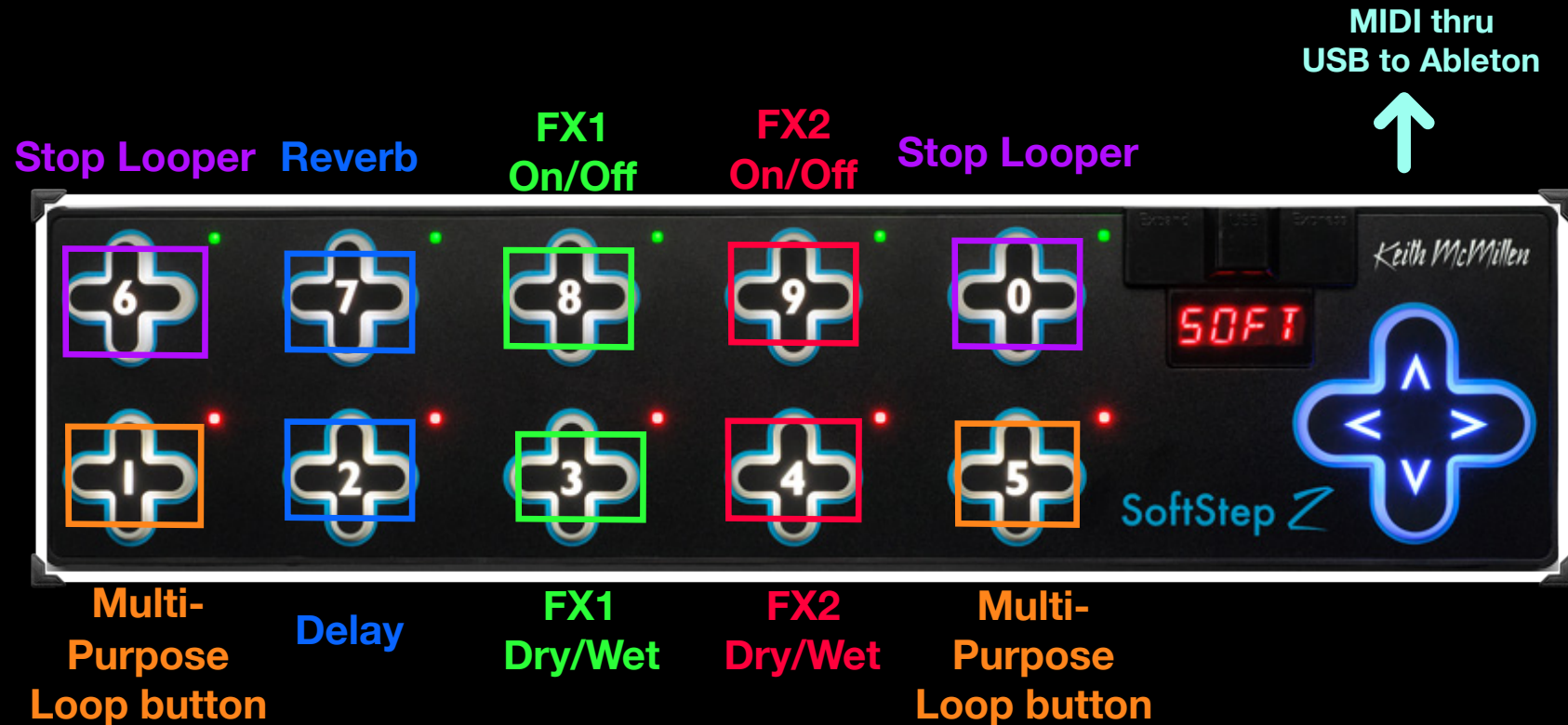
- Extended Technique
- Sampling and processing on OP-1
- Using combination of FX's
 - Wahmmy (Pitch Shifter) + Hall of Fame (Reverb) + Flashback (Delay)
- Creating FX racks on Ableton

Softstep 2

- Fully Programable MIDI foot controller
- LED Feedback
- Lightweight
- Pressure, position sensitive pads



Programming the Softstep as a pedalboard



LED FEEDBACK for Looper Device

Other Tools

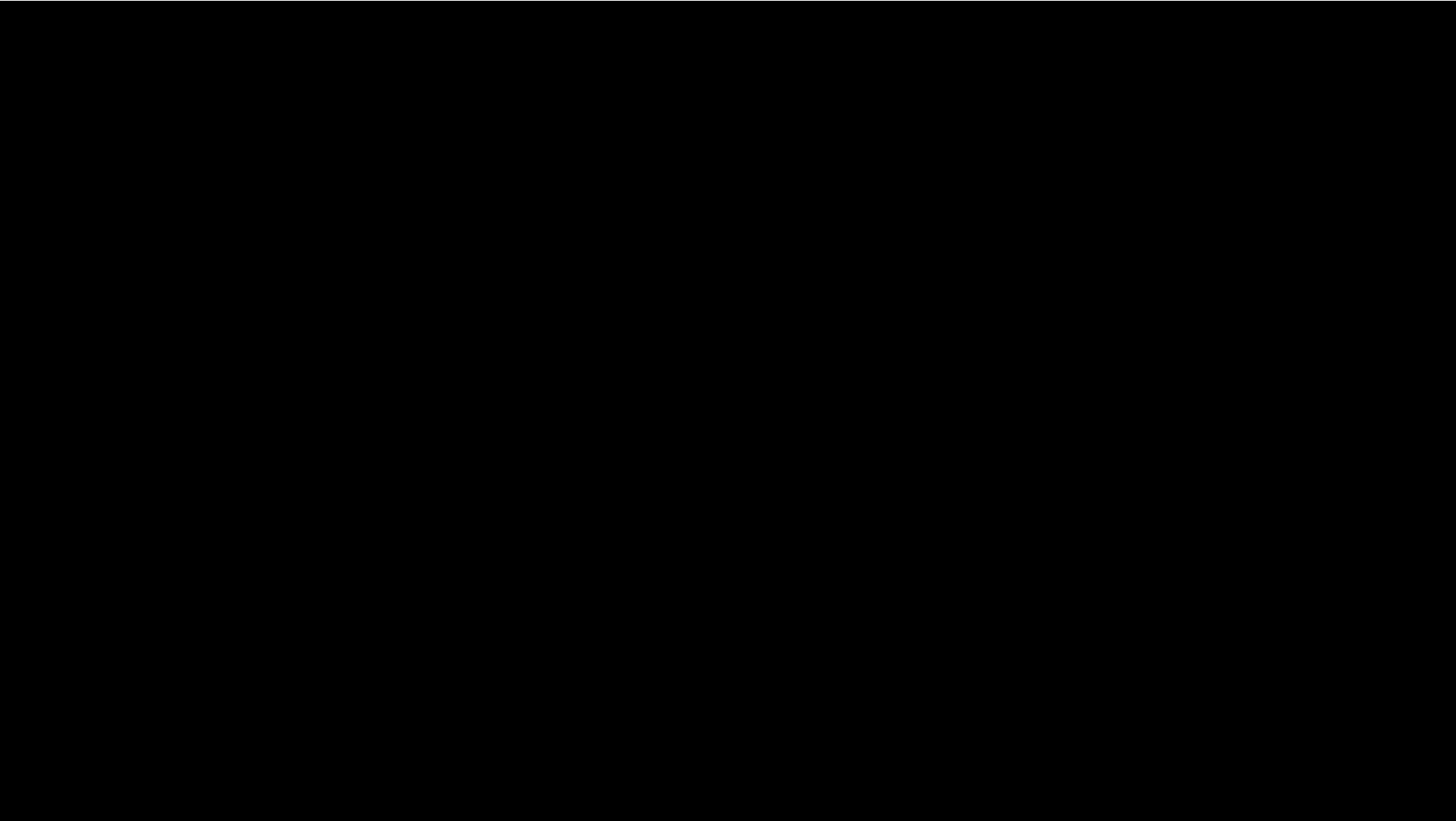
- Personal main DAW
- Allows creative ways of **Audio and MIDI routing**
- Live Performance friendly
- Low Latency native plug-ins
- **Ableton Push**



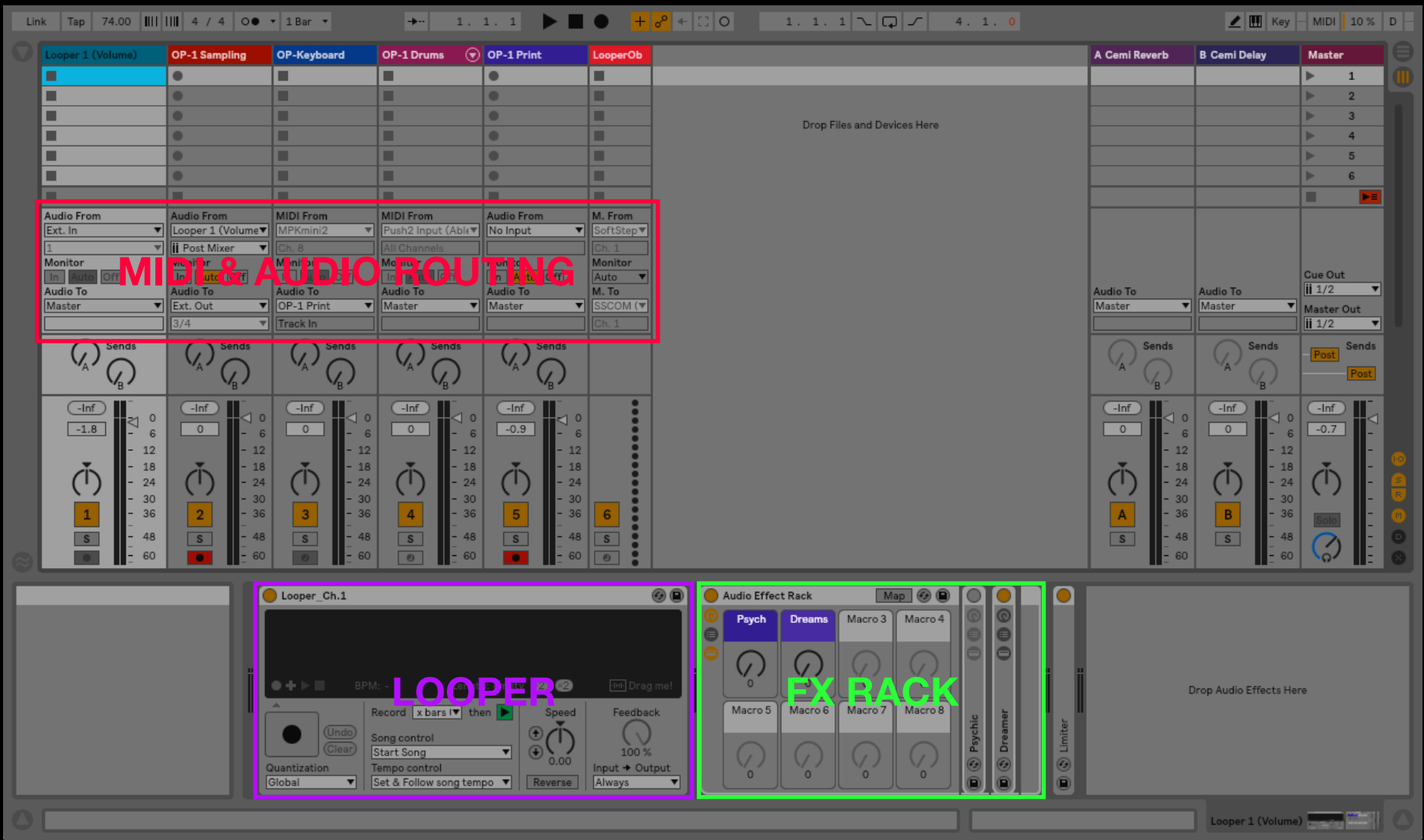
Ableton Push 2



- Perfect for Ableton use off laptop
- Best pad sensitivity for performance
- Quick to input drum patterns



Ableton Template





- Audio from “Looper 1” can be sent to OP-1 for sampling.
- By using alternate outputs there’s control over when to start sampling.
- MIDI routings allow expressive OP-1 control through MIDI keyboard or Push 2





The OP-1

- Main hardware device
- Synthesizer and Sampler
- 4-Track Tape emulation
- Creative Effects
- Cool looking synth and **extremely** portable





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Conclusions

- Successful integration
- New skills acquired
- Is it really useful and efficient?
- Applications
- What's next

A vibrant, surreal landscape. In the foreground, a small blue bird with a yellow face and black wings perches on a wooden branch. The background is a mix of pink and blue, suggesting a sunset or sunrise over a body of water. In the upper right, a pink, saucer-shaped UFO with a dome on top and landing gear is visible. The word "Thanks!" is written in a white box in the center of the image.

Thanks!