**Highlights**

* **Utilize a Teensy 3.2-based interface to deliver precisely timed digital pulses to initiate frame capture using a sCMOS camera**
* **Demonstrate temporally precise behavioral data acquisition using a Teensy 3.2 interface combined with concurrent sCMOS camera control**
* **Demonstrate experimental control of combined analog (sound waveforms) and digital pulses delivered simultaneously with camera-control**