

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Whole-brain scans of a 5dpf HuC:GCaMP6s larval zebrafish are rendered plane-by-plane in the order recorded by the microscope. Green and magenta pseudocolor distinguishes the two halves of the stitched image acquired in a 2-camera DPI configuration. The recording was made at 10 Hz volume rate; playback of the video has been slowed 10×. The size of the imaged volume was $1020\ \mu\text{m} \times 348\ \mu\text{m} \times 200\ \mu\text{m}$, with a $0.65\ \mu\text{m} \times 0.65\ \mu\text{m} \times 5\ \mu\text{m}$ voxel size.

File Name: Supplementary Movie 2

Description: Neural activity within individual slices of a 40-slice volume encompassing the forebrain of a 5dpf HuC:GCaMP6f larval zebrafish is visualized in realtime. A volume of size $223\ \mu\text{m} \times 127\ \mu\text{m} \times 200\ \mu\text{m}$ was imaged at 20 Hz volume rate and $0.65\ \mu\text{m} \times 0.65\ \mu\text{m} \times 5\ \mu\text{m}$ voxel size. ΔF values are displayed in magenta, baseline fluorescence is in grayscale. This video is an excerpt from the 20-minute analyzed recording.