DESCRIPTION OF ADDITIONAL SUPPLEMENTARY FILES DOCUMENT

Supplementary Movie 1: 3D reconstructed mouse whisker array overlaid with the visual space covered by the primary visual cortex (VISp, bright red space). Whiskers were aligned to a realistic model of the mouse head (Bolanos et al., 2021) and the visual space was constructed based on data from Zhang et al., 1017.

Supplementary Movie 2: Simulated whisker retraction (-40°) and protraction (+40°). Whiskers were aligned to a realistic model of the mouse head (Bolanos et al., 2021).

Supplementary Movie 3: Whisker protraction leads to a convergence of the whisker search space with the visual space modulated by the whiskers themselves. Brighter red space: Modulated visual space extension caused by eye movements (± 20°). Darker red space: Modulated visual space. Turquoise whiskers indicate the ones identified to be important for tacto-visual integration in primary visual cortex (VISp). Whiskers were aligned to a realistic model of the mouse head (Bolanos et al., 2021).