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Supplementary Material for "Local Motion-Adaptive Temporal Smoothing for Real-Time Laparoscopic Video Segmentation"

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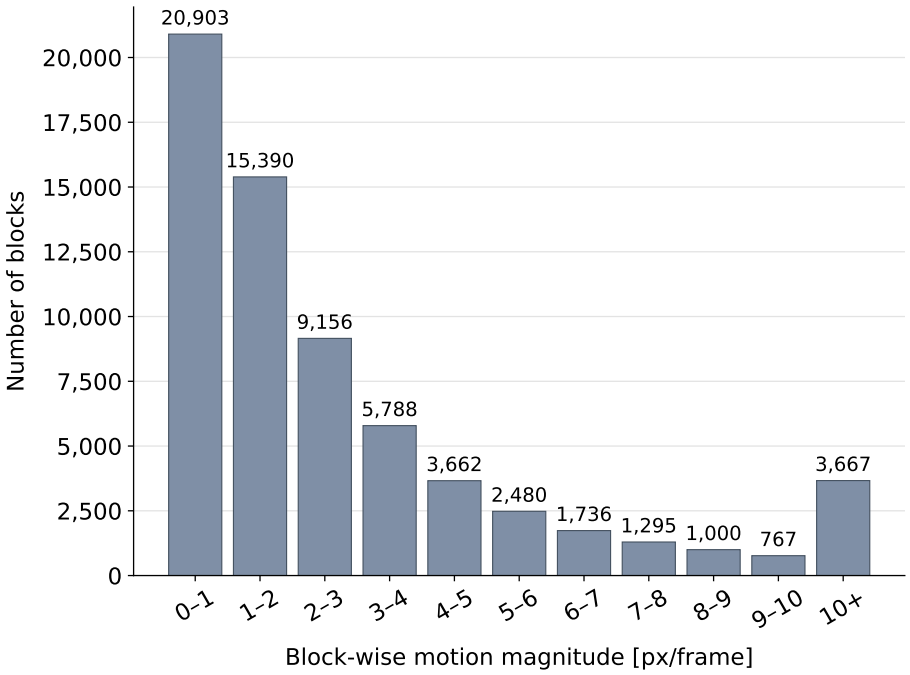


Fig. S1. Distribution of blocks across motion bins. Histogram showing the number of blocks assigned to each Farneback-derived motion bin used in the motion-stratified stability–responsiveness analysis. Block-wise motion was defined as the 90th percentile of pixel-wise motion magnitudes within each block.

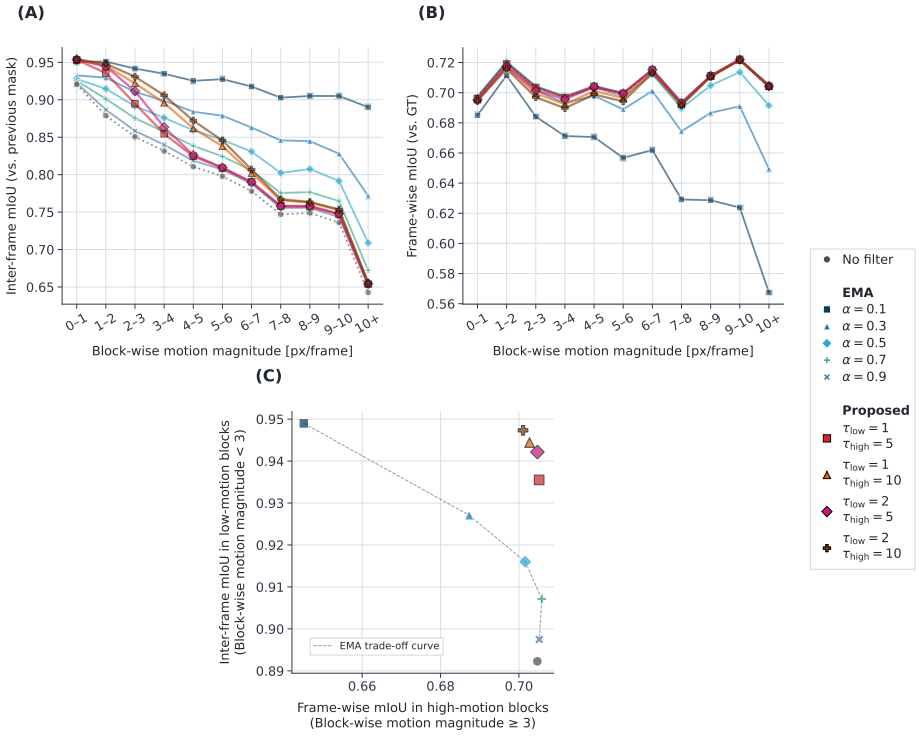


Fig. S2. Motion-stratified analysis using mIoU, complementary to the boundary-IoU-based analysis in Fig. 2. Motion bins are defined using Farneback-derived block-wise motion. (A) Inter-frame mIoU vs. previous masks. (B) Frame-wise mIoU vs. ground truth. (C) Stability–responsiveness trade-off.