



Label box



Generate Heatmap



Doctor

c. Attention during manual box labeling operation on 100k frames, generating attention heatmap

### C. 25fps surgery video with attention heatmap labels



High Rectum



Middle Rectum



Low Rectum



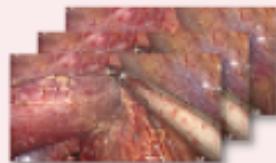
Distal Stomach



Proximal Stomach

b. 5 surgical scenes, 5 patients in each scene, the video length of each patient is 4, 5, 6, 7, 8 minutes

### B. 125 surgical clips, 1M frames of high-quality surgical video



RAFT



Numerous  
surgical operation



- Operational complexity
- Common instruments
- Common procedures
- Correct operation

a1. Computing the operation process of complex surgeries through optical flow

a2. Three clinicians selected high-quality data fragments.

A. 142 hours of original surgical videos from 25 patients performed by 6 surgeons.

Process of generating Surgatt-100k dataset