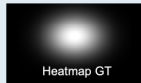
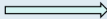




Label box



Generate Heatmap



Heatmap GT



Heatmap Vis

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