Phantom

- □□□□□Phantom: Subject-Consistent Video Generation via Cross-Modal Alignment
- □□□□□https://arxiv.org/abs/2502.11079
- ICCV2025

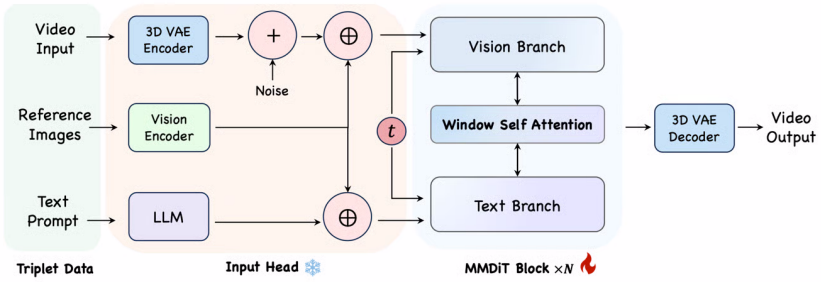

Figure 4. Overview of the ***Phantom*** architecture. Triplet data is encoded into latent space at the input head, and after combination, it is processed through modified MMDiT blocks to learn the alignment of different modalities.

□□□□□subject-to-video□□□□□□□□□□pipeline□□□□□□□□ □□□□□□□□pipeline□

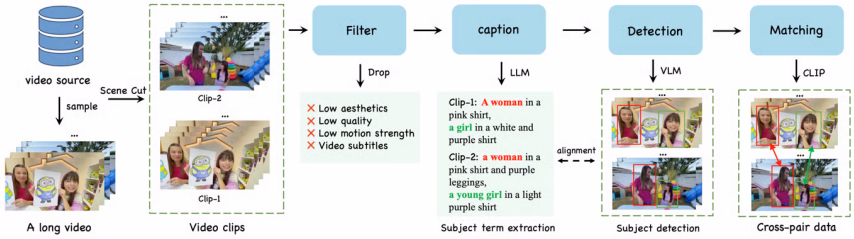

Figure 3. Data processing pipeline for cross-modal video generation. The process involves filtering, adding captions, detection, and matching stages to extract subjects from video clips and align them with the text prompts, ensuring consistent video generation.

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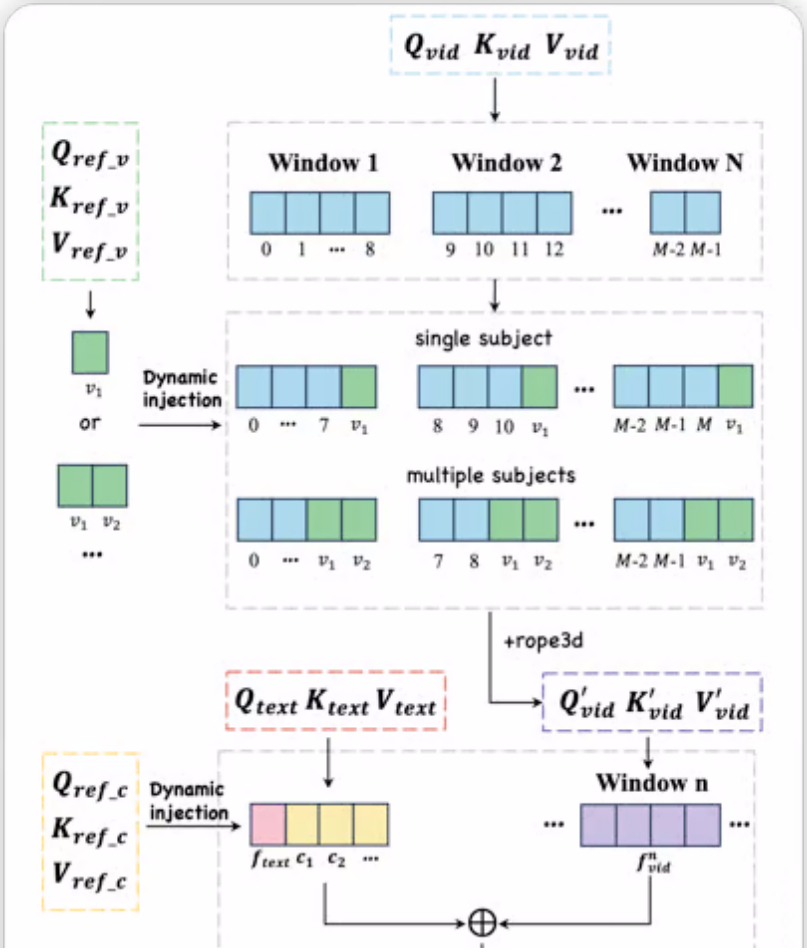

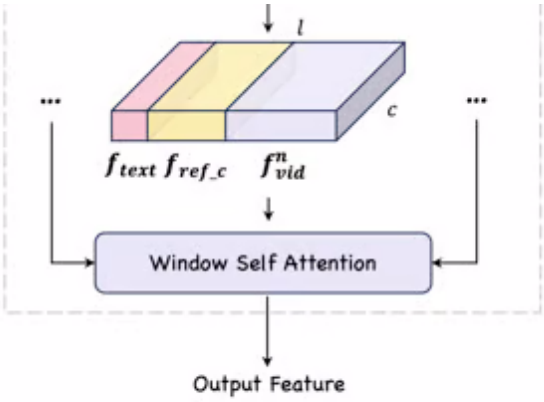

Figure 5. **Dynamic injection strategy** and attention calculation for single or multiple reference subjects in each MMDiT block.

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