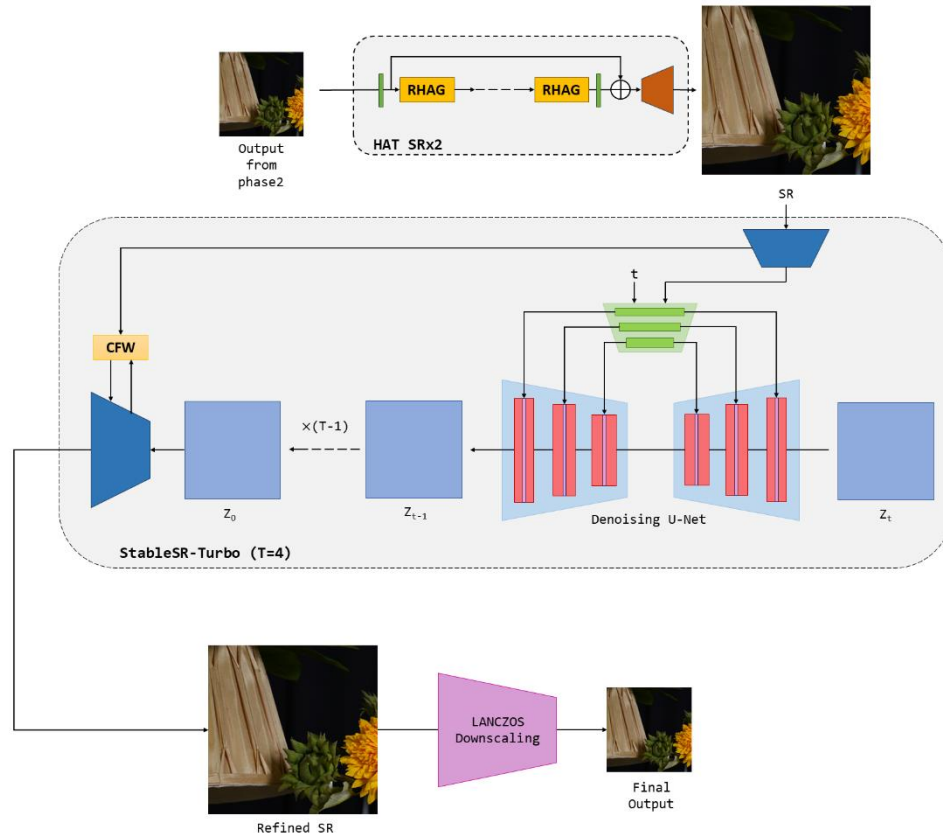# Phase 3 Description

Above figure illustrates the pipeline of phase3. We utilize the pre-trained models to refine the details of the preprocessed images from phase2. The images first undergo x2 upscaling using Hybrid Attention Transformer (HAT) to enrich the textures. The initial upscaling phase effectively mitigates distortions of small-scale details such as texts during texture generation process leveraging pre-trained diffusion priors. We employ StableSR with SD-Turbo, which is a distilled version of Stable Diffusion using Adversarial Diffusion Distillation, to further refine the upscaled images, producing realistic textures in regions with severe degradations. The refined images are generated with 4 sampling steps and then downscaled with LANCZOS interpolation to obtain the final output.