Supplementary Material

A. Ablation on module selection

We provide quantitative results of ablation on module to insert mapping layers. Tab. 1 indicates that the decoderonly strategy shows the strongest guidance capability since it does not harm the encoder's feature space and only performs guidance during generation.

B. Limitation

For plugins to generate personalized concepts, *e.g.*, IP-Adapter [?], our method might not maintain the identity well like shown in Fig. 1. This is because the custom plugins work on the text-encoder other than the feature space concepts that are not directly injected into the upgraded model other than fused as guidance.

C. Qualitative result

We provide more qualitative result on Controlnet [?], T2I-Adapter [?] and LoRA [?] as shown in Fig. 2

Plugin: ControlNet	$FID\downarrow$	CLIP-score \uparrow	Cond. Recon. \uparrow
Encoder & Decoder	38.37	0.26	0.24 ± 0.15
Encoder only	37.32	0.26	0.23 ± 0.14
Decoder only	30.95	0.26	0.27 ± 0.13
Plugin: LoRA	$\text{FID}\downarrow$	CLIP-score \uparrow	Style-Sim ↑
Plugin: LoRA Encoder & Decoder		CLIP-score ↑ 0.26	Style-Sim↑ 0.79
		1	

Table 1. *Ablation on module to insert mapping layers.* For encoder only and decoder only, we use the same mapping layers to map the frozen base model to the upgraded model's encoder and decoder separately. For both the encoder and decoder, we use two identical mapping layers and insert them into the encoder and decoder.



Image prompt IP-Adapter Ours Figure 1. *Limitations*. In IP-Adapter [?], although our method can produce relatively identity-consistent results, the details, *e.g.*, clothes, are still different from the original model.

ControlNet

X-Adapter & Upgraded Model prompt:



SD2.1 SDXL X-Adapter & Upgraded Model prompt: A cute book of spells in mystical cover



SD2.1

SDXL

LoRA

shukezouma

X-Adapter Prompt: masterpiece, best quality, ultra detailed, 1 girl, solo, smile, looking at viewer, holding flowers. ords)

Upgraded Models prompt: masterpiece, best quality, ultra detailed, 1girl, solo, smile, looking at viewer, holding flowers,



SDXL SD2.1

Glass sculpture X-Adapter Prompt: realistic glasssculpture of a rabbit, translucent, transparent, detailed cityscape background, street, reflections Upgraded Models prompt: A rabbit, detailed cityscape background, street, reflections



SDXL

SD2.1



SD2.1

SD2.1

X-Adapter & Upgraded Model prompt: Two dears in the wild

SDXL

SDXL

X-Adapter & Upgraded Model prompt: Cinematic photo hamster in a bauble wearing a christmas hat

SD2.1 Lego AI

X-Adapter Prompt: Perfect lighting, depth of field, (trigger word), house in the forest Upgraded Models prompt: Perfect lighting, depth of field, house in the forest

SDXL



T2I-Adapter

X-Adapter & Upgraded Model prompt: A cat holding a gun



X-Adapter & Upgraded Model prompt: A cat riding a dolphin





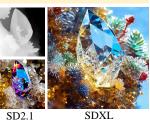




Our result

Figure 2. Qualitative Results on Different Plugins.

X-Adapter & Upgraded Model prompt: A world of crystal, high quality, extremely detailed



SDXL

X-Adapter & Upgraded Model prompt: An apple made of chocolate, high quality, extremely detailed



SDXL