Appendix

A INTRODUCTION

Our appendix contains further details about our research. The content is organized as follows:

- In Section **B**, we provide more information aboud benchmark dataset of One-to-Style task.
- In Section C, we provide more trianing details of StyleDreamer.

B BENCHMARK DATASET OF ONE-TO-STYLE

We first present out the portrait images and style prompt in benchmark dataset. Fig. 7 is the portrait images in evaluation dataset. Tab. 1 shows the style prompt we used in evaluation.



Figure 7: **Portrait Images in Benchmark Dataset:** The portrait images in evaluation dataset of One-to-Style task.

Index	Style	Prompt	
Artistic Style			
1	Van Gogh's Starry Night	Transform it to Van Gogh, Starry Night style	
2	Modigliani painting	Transform it to Modigliani painting style	
3	Fauvism Painting	Make him look like a Fauvism painting	
4	Edvard Munch Painting	Make him look like an Edvard Munch painting	
5	Andy Warhol Painting	Transform it to Andy Warhol painting	
6	Pixar	Turn him into the style of Pixar	
7	Disney	Turn him into the style of Disney	
Material Style			
8	Bronze Bust	As a bronze bust	
9	Marble Statue	Make him a marble statue	
Character Style			
10	Tolkien Elf	Turn him into the Tolkien Elf	
11	Clown	Turn him into a clown	
12	Voldemort	Turn him into a Voldemort	
13	Anime	What if he were an anime character	
14	Robot	Turn him into a robot	
15	Cyborg	Turn him into a cyborg	

Table 1: Style Prompts in Benchmark Dataset: The style prompts in evaluation dataset of One-
to-Style task.

C TRAINING DETAILS OF STYLEDREAMER

As shown in Tab. 2, we present the details of loss wight used in training and the learning rate of trained module.

Optimizer Parameters			
Loss	Weight		
CSD (Eq. 4)	1		
LoRA (Eq. 5)	1		
\mathcal{L}_1	10		
LPIPS	10		
Normal Vector Regularization	1000		
Module	Learning Rate		
NeRF	0.01		
LoRA-geometry	0.01		
LoRA-background	0.001		
LoRA-guidance	0.001		

Table 2: **Optimizer Parameters:** The details of loss wight used in training and the learning rate of trained module.