

A. Additional Results - LD-SMC Rebuttal

 Table 1: *FFHQ*. Additional baselines. Box inpainting on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
PFLD	49.21	7.647	21.43	0.642	0.375
LatentDAPS	60.49	10.02	25.16	0.836	0.256
LD-SMC (prior proposal)	62.35	7.628	12.60	0.365	0.671
LD-SMC (Ours)	34.98	7.263	24.16	0.820	0.217

 Table 2: *FFHQ*. Additional baselines. Gaussian deblurring on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
PFLD	42.11	7.123	22.28	0.570	0.388
LatentDAPS	52.96	9.397	29.55	0.829	0.284
LD-SMC (prior proposal)	59.80	7.037	11.00	0.292	0.683
LD-SMC (Ours)	32.23	6.543	26.66	0.724	0.279

 Table 3: *ImageNet*. Free-form inpainting on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
Latent DPS	53.44	7.867	23.76	<u>0.722</u>	0.334
Latent TDS	52.75	7.884	<u>23.74</u>	0.721	0.334
ReSample	<u>44.15</u>	<u>7.104</u>	22.78	0.778	0.248
PSLD	59.24	8.470	21.93	0.638	0.372
LD-SMC (Ours)	37.44	6.746	23.40	<u>0.722</u>	<u>0.286</u>

 Table 4: *FFHQ*. Free-form inpainting on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
Latent DPS	40.17	7.609	27.95	0.858	0.212
Latent TDS	39.78	7.578	27.95	0.858	0.212
Resample	37.01	6.622	26.31	0.891	0.151
PSLD	46.94	7.573	25.33	0.760	0.290
LD-SMC (Ours)	34.65	<u>7.263</u>	<u>27.36</u>	<u>0.858</u>	<u>0.200</u>

Table 5: *FFHQ*. Proposal distribution ablation. Box inpainting on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
Prior proposal	62.35	7.628	12.60	0.365	0.671
DPS proposal	39.94	7.558	24.20	0.814	0.235
LD-SMC (Ours)	34.98	7.263	24.16	0.820	0.217

 Table 6: *ImageNet*. Ablation on number of particle for LD-SMC. Box inpainting on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
1 particle	52.94	6.929	19.30	0.668	0.333
3 particles	51.69	6.901	19.32	0.667	0.332
5 particles	51.46	6.953	19.41	0.669	0.331
10 particles	50.99	6.909	19.38	0.669	0.332

 Table 7: *ImageNet*. Ablation on number of Gibbs iterations for LD-SMC. Gaussian deblurring on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
5 particles; 1 iteration	51.95	6.796	23.60	0.614	0.382
1 particle ; 1 iteration	52.48	6.855	23.61	0.615	0.383
1 particle; 2 iterations	51.62	6.824	23.58	0.614	0.382
1 particle; 4 iterations	51.08	6.732	23.57	0.613	0.380

 Table 8: *ImageNet*. Ablation on number of Gibbs iterations for LD-SMC. Super-resolution on 1024 test examples.

	Perceptual Quality		Distortion		
	FID (\downarrow)	NIQE (\downarrow)	PSNR (\uparrow)	SSIM (\uparrow)	LPIPS (\downarrow)
5 particles; 1 iteration	59.42	6.812	21.78	0.523	0.436
1 particle ; 1 iteration	60.79	6.941	21.82	0.533	0.438
1 particle; 2 iterations	58.88	6.809	21.77	0.530	0.436
1 particle; 4 iterations	59.14	6.801	21.75	0.529	0.435