

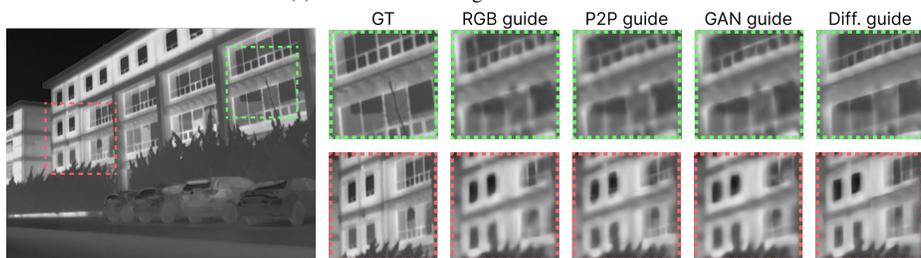
Exploring Diffusion-generated Guidance for Thermal Image Super-resolution

Supplementary Material

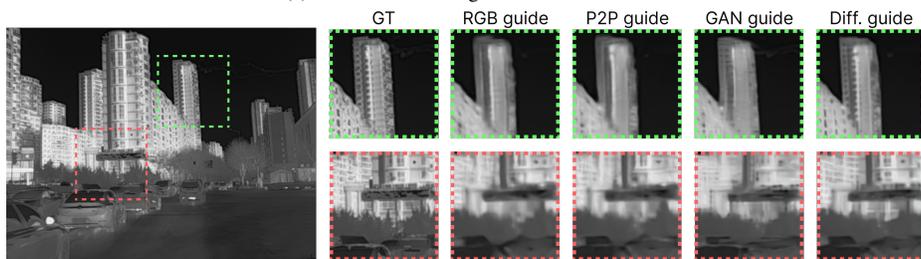
1. Full results on M3FD dataset



(a) Visual results using SwinFuSR model.



(c) Visual results using CoreFusion model.



(e) Visual results using SwinPaste model.

(b) Quantitative results of Fig. 1a.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	25.78	0.7819	0.3590
P2P	25.53	0.7721	0.3556
GAN	25.91	0.7839	0.3531
Diff.	27.41	0.8313	0.2270

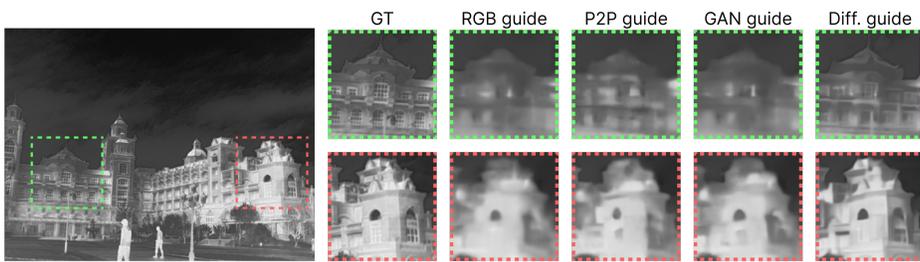
(d) Quantitative results of Fig. 1c.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	27.11	0.8562	0.3328
P2P	26.48	0.8410	0.3434
GAN	26.48	0.8539	0.3395
Diff.	26.79	0.8594	0.2079

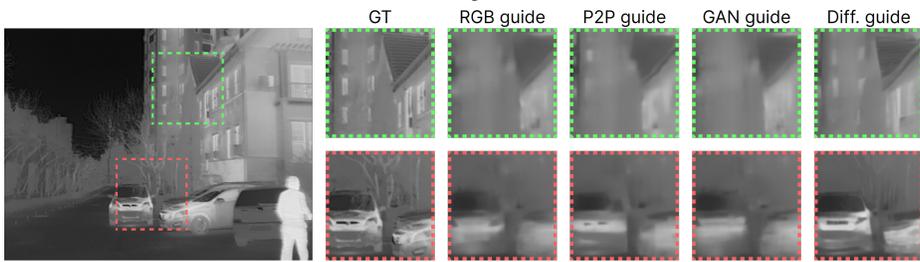
(f) Quantitative results of Fig. 1e.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	25.54	0.7839	0.2739
P2P	25.66	0.7849	0.2361
GAN	25.01	0.7569	0.2824
Diff.	26.64	0.8109	0.2408

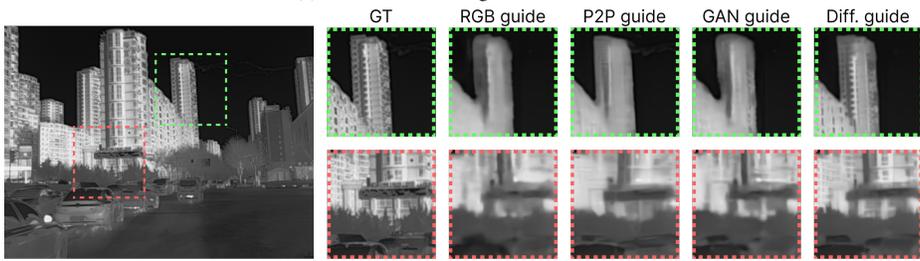
Figure 1. Guided super-resolution results at $\times 8$ scale on the M3FD dataset.



(a) Visual results using SwinFuSR model.



(c) Visual results using FW-SAT model.



(e) Visual results using SwinPaste model.

(b) Quantitative results of Fig. 2a.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	22.91	0.7183	0.4797
P2P	22.39	0.7256	0.4343
GAN	22.73	0.7190	0.4709
Diff.	26.53	0.8140	0.2408

(d) Quantitative results of Fig. 2c.

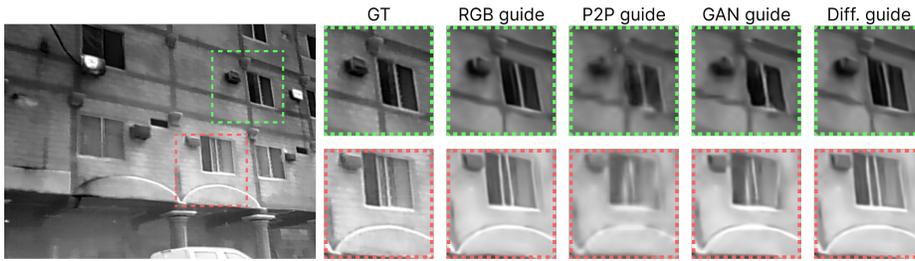
Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	26.48	0.8041	0.3722
P2P	27.16	0.8249	0.3714
GAN	26.31	0.8020	0.4096
Diff.	27.66	0.8235	0.2477

(f) Quantitative results of Fig. 2e.

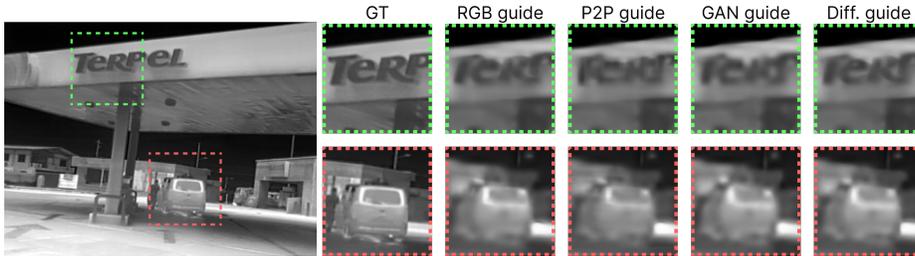
Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	23.68	0.7218	0.4002
P2P	24.02	0.7188	0.3213
GAN	23.76	0.7259	0.3887
Diff.	24.96	0.7677	0.2972

Figure 2. Guided super-resolution results at $\times 16$ scale on the M3FD dataset.

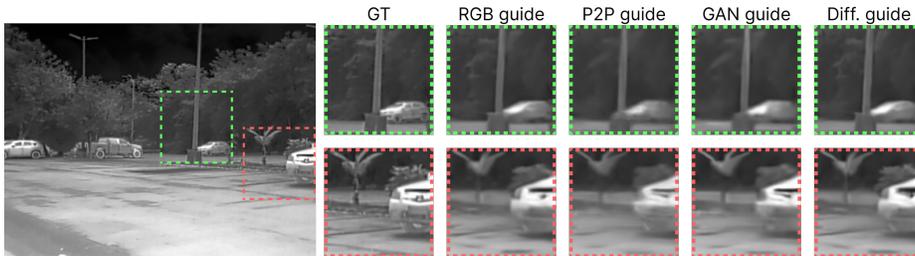
2. Full results on CIDIS dataset



(a) Visual results using SwinFuSR model.



(c) Visual results using CoreFusion model.



(e) Visual results using SwinPaste model.

(b) Quantitative results of Fig. 3a.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	28.00	0.8586	0.2634
P2P	27.74	0.8474	0.2743
GAN	27.72	0.8493	0.2738
Diff.	28.18	0.8596	0.2609

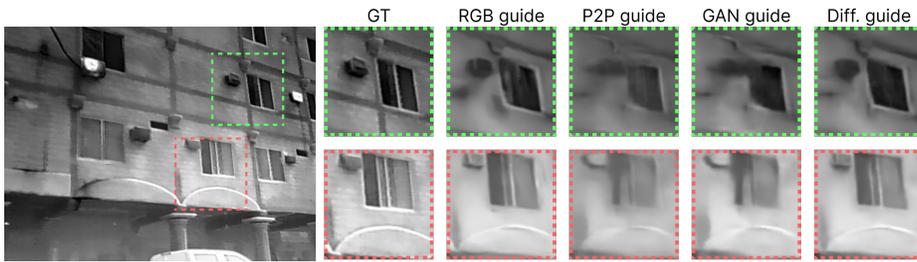
(d) Quantitative results of Fig. 3c.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	26.44	0.8081	0.3508
P2P	26.06	0.7919	0.3515
GAN	26.11	0.7926	0.3521
Diff.	26.57	0.8094	0.3495

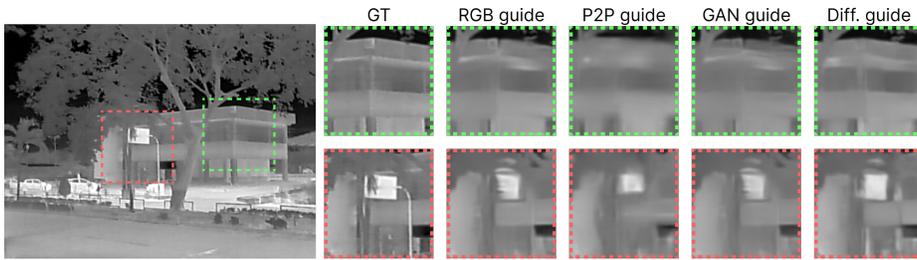
(f) Quantitative results of Fig. 3e.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	26.84	0.8423	0.2176
P2P	26.19	0.8379	0.2262
GAN	26.37	0.8352	0.2216
Diff.	27.00	0.8461	0.2033

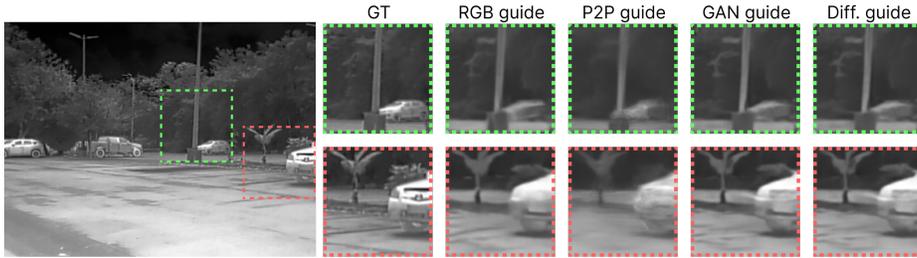
Figure 3. Guided super-resolution results at $\times 8$ scale on the CIDIS dataset.



(a) Visual results using SwinFuSR model.



(c) Visual results using FW-SAT model.



(e) Visual results using SwinPaste model.

(b) Quantitative results of Fig. 4a.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	23.01	0.7508	0.3701
P2P	22.81	0.7475	0.3831
GAN	22.98	0.7498	0.3781
Diff.	23.38	0.7607	0.3767

(d) Quantitative results of Fig. 4c.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	23.15	0.7485	0.3193
P2P	22.90	0.7395	0.3271
GAN	22.99	0.7420	0.3101
Diff.	23.79	0.7514	0.3109

(f) Quantitative results of Fig. 4e.

Guide	PSNR \uparrow	SSIM \uparrow	LPIPS \downarrow
RGB	24.97	0.7808	0.3225
P2P	24.72	0.7723	0.3282
GAN	24.96	0.7819	0.3218
Diff.	25.06	0.7824	0.3157

Figure 4. Guided super-resolution results at $\times 16$ scale on the CIDIS dataset.