

TABLE VIII: Quantitative comparison with SOTA methods on RealRain1K dataset. **Thicker** text indicates the best results. PSNR/SSIM values are calculated on the Y channel in YCbCr color space.

Methods	Venue	RealRain1K-L [41]		RealRain1K-H [41]	
		PSNR	SSIM	PSNR	SSIM
DSC [6]	ICCV'15	27.76	0.8750	24.48	0.7857
GMM [7]	CVPR'16	28.87	0.9259	24.93	0.8721
DDN [55]	TIP'18	31.18	0.9172	29.17	0.8783
DerainNet [46]	TIP'17	27.09	0.9250	22.88	0.8886
RESCAN [50]	ECCV'18	31.33	0.9261	29.39	0.8914
LPNet [59]	TNNLS'19	32.47	0.9596	28.62	0.9424
SPANet [60]	CVPR'19	30.43	0.9470	25.76	0.9095
DRDNet [61]	CVPR'20	31.94	0.9426	30.78	0.9308
MSPFN [52]	CVPR'20	35.51	0.9668	25.08	0.8045
SPDNet [1]	ICCV'21	28.98	0.9005	26.63	0.8498
MPRNet [14]	CVPR'21	36.29	0.9721	34.74	0.9635
HINet [62]	CVPR'21	41.98	0.9869	40.82	0.9830
Restormer [16]	CVPR'22	40.90	0.9849	39.57	0.9812
DGUNet [10]	CVPR'22	40.95	0.9853	39.83	0.9812
DANet [33]	IJCAI'22	39.47	0.9853	37.64	0.9804
ELFormer [34]	ACMMM'22	41.02	0.9884	38.77	0.9836
DAWN [8]	ACMMM'23	41.24	0.9883	39.29	0.9843
MFDNet [9]	TIP'24	41.24	0.9891	39.32	<b>0.9853</b>
GBPG-Net (Ours)	-	<b>42.22</b>	<b>0.9891</b>	<b>40.79</b>	0.9820