

TABLE X: Quantitative comparison with SOTA methods on multiple desnow benchmark datasets. **Thicker** text indicates the best results. PSNR/SSIM values are calculated on the RGB space. GBPG-Net means that the test is performed on the full test set. GBPG-Net* means that the test is performed on the part of the test set according to the LMQFormer [31].

Methods	Source	CSD [42]		SnowCityscapes-L [4]		SnowKITTI-L [4]		Snow100K-L [43]		Average	
		PSNR	SSIM	PSNR	SSIM	PSNR	SSIM	PSNR	SSIM	PSNR	SSIM
DesnowNet [63]	TIP'18	20.632	0.777	21.020	0.705	16.487	0.682	29.705	0.890	21.961	0.764
JSTASR [64]	ECCV'20	20.628	0.705	19.047	0.550	18.470	0.532	17.925	0.520	19.018	0.577
HDCW-Net [65]	ICCV'21	28.669	0.892	25.236	0.792	22.348	0.644	20.883	0.618	24.284	0.737
DDMSNet [4]	TIP'21	24.976	9.905	33.371	0.956	30.520	0.934	27.018	0.849	28.971	0.911
TKL [15]	CVPR'22	33.351	0.954	35.691	0.967	31.354	0.939	28.368	0.863	32.191	0.931
LMQFormer [31]	TCSVT'23	32.643	0.963	39.172	0.984	33.145	0.959	29.705	0.890	33.666	0.949
GBPG-Net (Ours)	-	37.949	0.981	39.564	0.984	37.045	0.978	31.275	0.910	36.458	0.963
GBPG-Net * (Ours)	-	37.965	0.981	39.554	0.984	37.045	0.978	31.292	0.910	36.464	0.963