

RMSANet Training and Evaluation Summary

Training Details

Dataset	Image Type	Image Patches	Training Time	Epochs
BSD432	Grayscale	50×50 pixels	18 hours	40
CBSD432	Color	50×50 pixels	26 hours	40

Additional Details:

- **Dataset Preparation:** Image patches of size 50×50 pixels were used to save memory and speed up computation. These patches were pre-processed and stored in a .npy file.
- **Noise Levels:** The model was trained as a blind denoiser on Gaussian noise ranging from $\sigma = 0$ to $\sigma = 50$.
- **Model Saving:** The best model was saved during training for both grayscale and color datasets.

Evaluation Results

Dataset	Noise Sigma	Average PSNR (dB)	Average SSIM
BSD68	15	32.8758	0.8765
BSD68	30	29.5252	0.8231
BSD68	50	27.2564	0.7425
CBSD68	15	33.9836	0.9631
CBSD68	30	30.3726	0.9307
CBSD68	50	27.9460	0.8968