Training Neural Networks on RAW and HDR Images for Restoration Tasks



Figure S1. Histogram over all images in the HDR (top) and RAW (bottom) datasets.

S1. Content

This document contains additional results and details as listed below:

- Table **S1** learning rates used for Real-ESRGAN
- Figure S1 histograms over all images and HDR and RAW datasets.
- Figure S2 visual results for single-image super resolution on the HDR image dataset
- Figure S3 visual results for single-image super resolution on the RAW image dataset
- Figure S4 visual results for for deblurring with GFN-Net
- Figure **S5** visual results for for deblurring with MirNet-v2.
- Figure <u>S6</u> visual results for denoising DnCNN and SADNet

Table S1. Learning rates used for Real-ESRGAN.

Label	Learning rate
Linear-L1	1×10^{-4}
PQ-L1	1×10^{-4}
PU21-L1	1×10^{-4}
μ -L1	1×10^{-4}
Linear-PQ	1×10^{-5}
Linear-PU21	1×10^{-5}
Linear- μ	1×10^{-5}
Linear-SMAPE	1×10^{-5}

Supplementary Material



Figure S2. Example results for single-image super-resolution on HDR images with EDSR [15] (top) and Real-ESRGAN [25] (bottom). The numbers in parentheses show PSNR, SSIM, and ColorVideoVDP quality values (the higher, the better) for the reconstructed image.



Figure S3. Example results for single-image super-resolution on RAW images with EDSR [15] (top) and Real-ESRGAN [25] (bottom).



Figure S4. Example results for deblurring with GFNNet. The results are missing for Linear-PQ, Linear-PU21, and Linear-SMAPE, as the networks failed to converge for these configurations.



Figure S5. Example results for deblurring with MirNet-v2



Figure S6. Example results for denoising with DnCNN (top) and SADNet (bottom).