CoDISP: Exploring Compressed Domain Camera ISP with RGB-guided Encoder

CVPRW supplementary materials
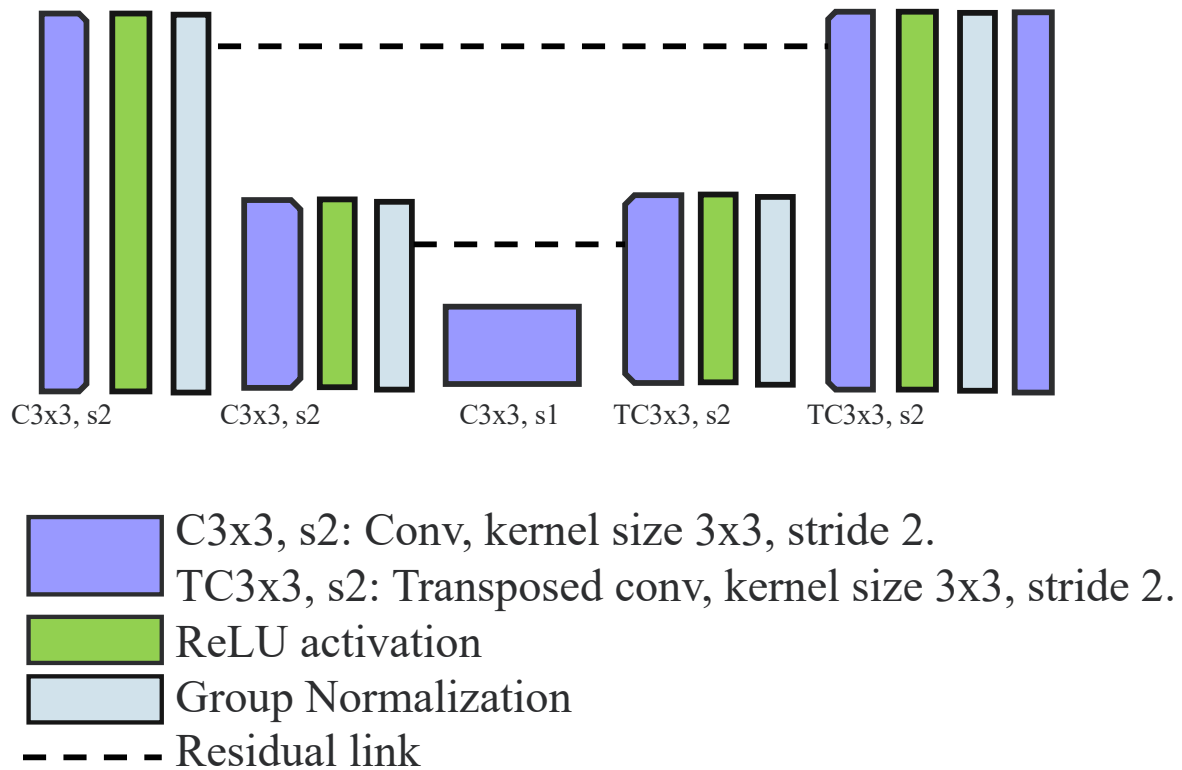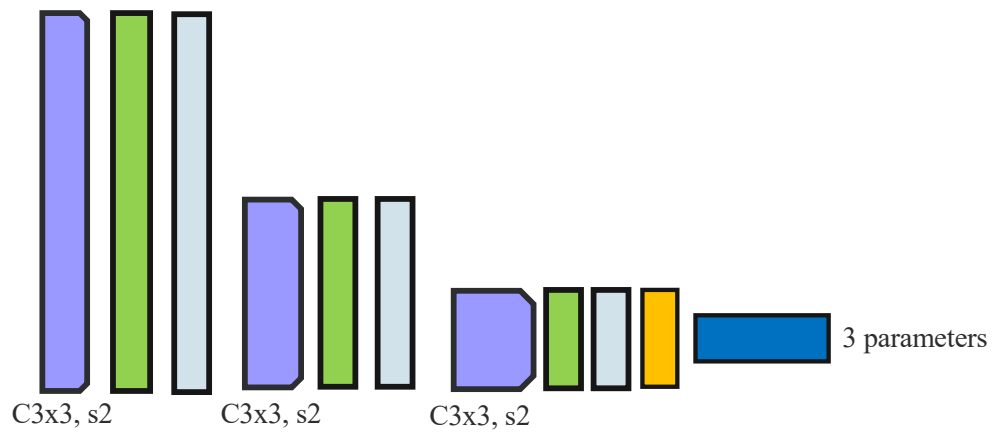

C3x3, s2: Conv, kernel size 3x3, stride 2.
TC3x3, s2: Transposed conv, kernel size 3x3, stride 2.
ReLU activation
Group Normalization
Residual link

Figure S1. Architecture of simple CNN denoising module on latent space.
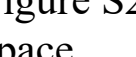
C3x3, s2   C3x3, s2   C3x3, s2   3 parameters

C3x3, s2: Conv, kernel size 3x3, stride 2.
TC3x3, s2: Transposed conv, kernel size 3x3, stride 2.
ReLU activation
Group Normalization
Global pooling
FC layer

Figure S2. Architecture of the registration CNN network on the latent space.
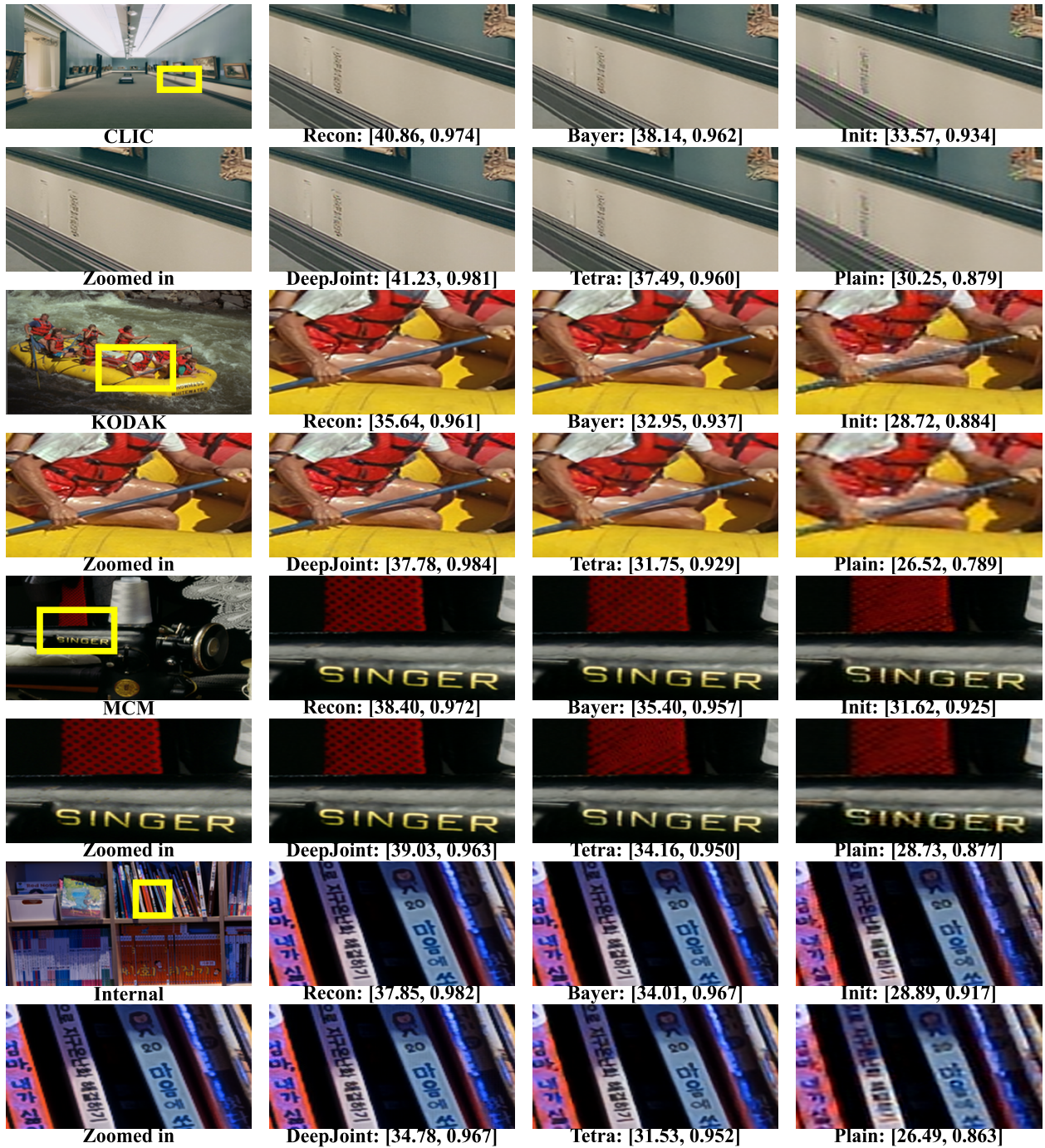
Figure S3. Demosaicing results with compression ratio as 6 on 4 datasets (CLIC, KODAK, MCM, and Internal). DeepJoint trained at Bayer pattern is compared as the baseline. Evaluation metrics are shown as [PSNR, SSIM].