

2.7 Deep Autoencoders

A simple autoencoder with 4 strided convolution and 4 strided transposed convolutions was used. BatchNorm2d was also used did not appear to work without it. There were no fully connected layers, the autoencoder encoded the 128x128 RGB images into 1024 8x8 feature maps and back. The autoencoder was trained using MSELoss with adam optimizer at learning rate 0.001. Timestamps with random color were added using pillow library. The results were that the images were blurry, and the timestamps were less visible but usually not fully removed. The network seems to remove blue timestamps better than red and dark timestamps.





