Pix2Pix Baseline Experiment 3 Report

In our experiment, we adapted the Pix2Pix baseline model to support clinical decision-making for diagnosing Retinopathy of Prematurity by modifying only the UNet generator to include two output layers —one for the nasal and one for the temporal FOV retinal images —while keeping the rest of the architecture unchanged. The training parameters remain consistent with the original Pix2Pix setup, using a learning rate of 2e-4, an L1 lambda of 100, a gradient penalty weight of 10, and ADAM optimizer beta values of 0.5 and 0.999. This approach retains the original Pix2Pix architecture and hyperparameters while it translates a single center FOV image into two distinct views where the dual output modification is directly responsible for the translation performance. Any performance differences observed in generating the nasal and temporal images can be attributed solely to the dual output modification, thereby providing unbiased and fair baseline for comparison with our ongoing research model.