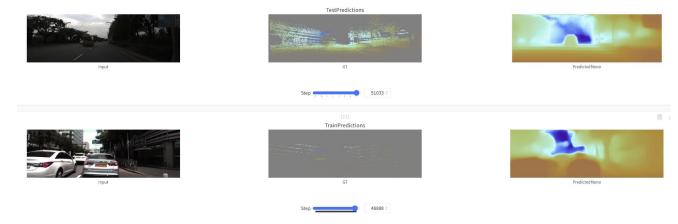
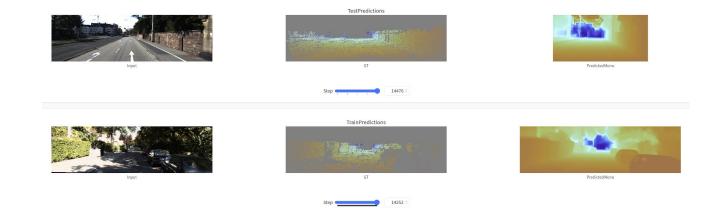
Dataset - Gt Depth Issue of MS2 dataset

Train with RGB only on MS2 dataset, the predicted depth is pretty blurry, due to the noises in Gt depth (officially provided in depth_filtered folder):

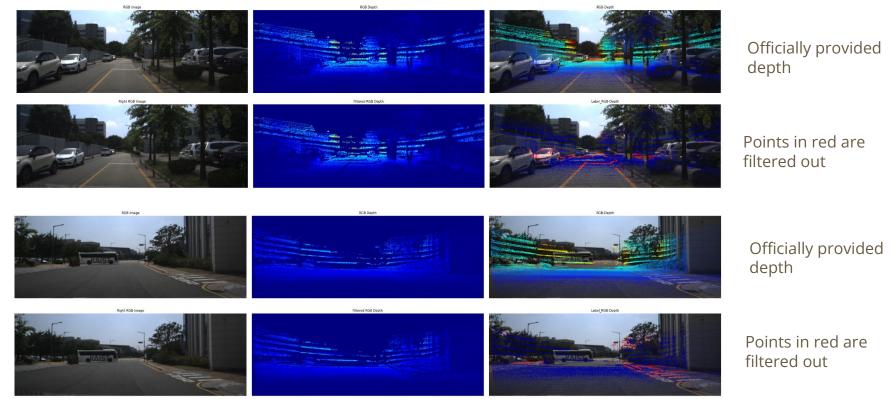


While the same network trained on Kitti dataset, the predicted depth is very crispy. This demonstrates Kitti has high-quality depth map.



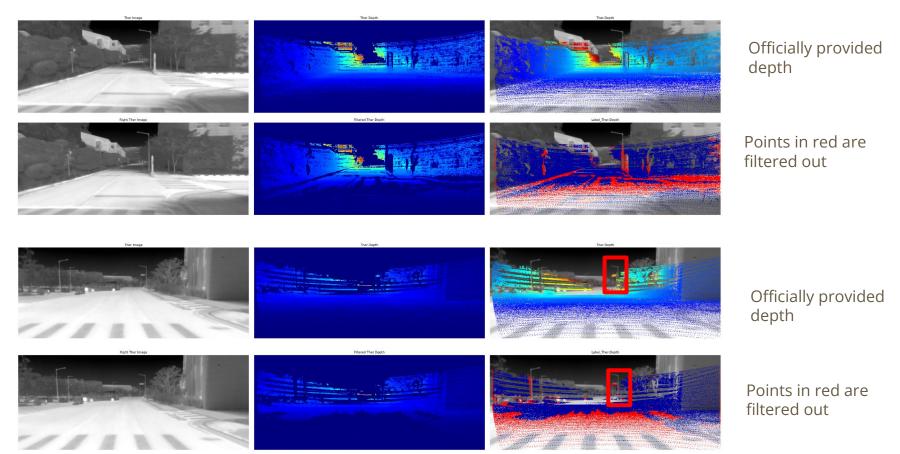
Dataset - Depth Filter (stereo consistency) on MS2 dataset

Filter out the GT depth (of left RGB) with significant L1 error and SSIM error when projecting left to right RGB.



Dataset - Depth Filter (stereo consistency) on MS2 dataset

Filter out the GT depth (of left Thermal) with significant L1 error and SSIM error when projecting left to right RGB.

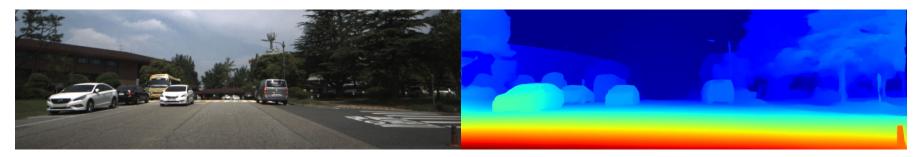


Dataset - Depth Filter (RaftStereo consistency) on MS2 dataset

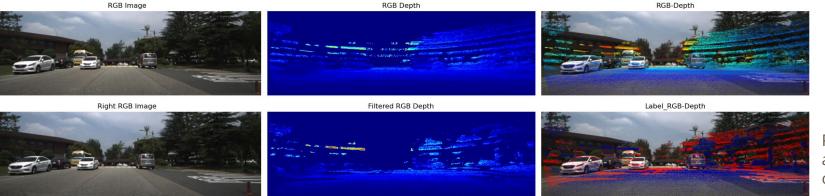
Filter out the GT depth (of left RGB) when its gap from the depth predicted by RaftStereo is over 0.12*GT

RGB Image:

Disparity from RaftStereo Net:



After applying both the left-right RGB consistency filter and RaftStereo depth consistency filter :

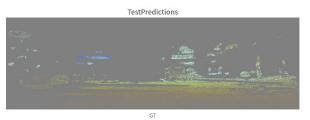


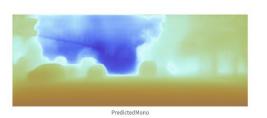
Officially provided depth

Points in red are filtered out

Trained on one sequence with our filtered Gt depth (depth_filtered_myrefine)



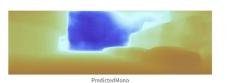








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