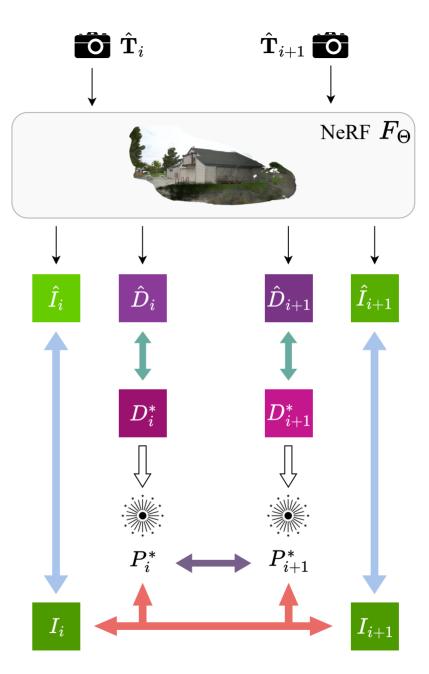
Key Components NeRF F_{Θ} \hat{lpha},\hat{eta} align to global P_{i+1}^* $\hat{lpha}_{i+2},\hat{eta}_{i+2}$ $\hat{lpha}_{i+1},\hat{eta}_{i+1}$ \hat{lpha}_i,\hat{eta}_i D_{i+2} D_i D_{i+1} I_{i+2} $\hat{\mathbf{T}}_{i+2}$ I_i I_{i+1} $\hat{\mathbf{T}}_{i+1}$

Training Pipeline



Legend

Learnable

 $\hat{\mathbf{T}}_i$: Camera pose $[\hat{\mathbf{R}}_i,\hat{\mathbf{t}}_i]$

 F_{Θ} : NeRF parameters

 $\hat{lpha_i}$: Depth distortion - scale

 $\hat{\beta}_i$: Depth distortion - shift

Objects

 I_i : Ground truth image

 \hat{I}_i : Renderd image

 D_i : Monocular depth map

 \hat{D}_i : Renderd depth

 D_i^* : Undistorted depth

 P_i^* : Point cloud from depth

Operations

