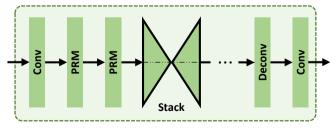
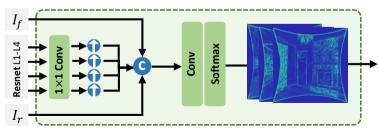


(a) the proposed Line-aware Rectification Network (LaRecNet)



(b) the Distorted Lines Perception (DLP) module



(c) the Attentive Uncertainty Regularization module