

Table 4: The ablation of the LEVEL\_2 mAPH result improvement of each component on the validation set using single frame. SA, CA and DCA denote the self-attention layer, cross-attention layer and deformable cross-attention layer. IoU and Corner denote IoU rectification and Corner auxiliary supervision. Fade denotes the fade augmentation strategy.

CPN	SA	CA	Corner	DCA	IoU	Fade	Vehicle	Pedstrain	Cyclist	Mean
							66.4	63.4	67.8	65.9
✓							68.5	62.7	67.0	66.1
✓	✓						68.7	64.5	67.3	66.8
✓		✓					68.7	64.2	66.7	66.5
✓	✓	✓					69.3	64.8	66.8	67.0
✓	✓	✓	✓				69.5	65.3	66.4	67.1
✓	✓	✓	✓		✓		69.5	66.9	69.7	68.7
✓	✓	✓	✓		✓	✓	69.4	67.7	70.2	69.1
✓	✓		✓	✓			69.3	65.1	67.5	67.3
✓	✓		✓	✓	✓		69.2	66.7	69.1	68.3
✓	✓		✓	✓	✓	✓	69.7	68.3	68.8	69.0