

Configuration	Value	Hyperparameter	Value (YOLOv5)	Value (EffDet)	Value (DT2)
Environment	Linux (Ubuntu-Like)	Epochs	350	350	350
		Classes	6	6	6
Service Provider	Amazon AWS (EC2)	Backbone	CSP Darknet 53	EfficientNet	ResNet
		Bottleneck	PANet	BiFPN	RPN+FPN
Instance Family	p3dn	Head	Yolov3 like	Yolov3 like	RPN+RCNN
vCPU	96	Train Data	7000	7000	7000
		Val Data	2000	2000	2000
		Test Data	1000	1000	1000
Memory	76 GiB	Annotation/Mask format	YOLO TXT	COCO JSON	COCO JSON
Cost (per hour)	31.2 USD	Optimizer	SGD	SGD + Adam	SGD + Adam
		Learning rate	0.1	Adaptive	Adaptive
GPU	NVIDIA V100 TensorCore	Weight Decay (prevent overfit)	0.0005 (Default)	0.0005 (Default)	0.0005 (Default)
		Activation	Leaky ReLU	Leaky ReLU	Sigmoid (Bbox) + Softmax (Class)