

Model	tet-dev			val	Params	Ratio	FLOPs	Ratio	Latency	
	AP	AP_{50}	AP_{75}	AP					GPU _{ms}	CPU _s
EfficientDet-D0 (512)	33.8	52.2	35.8	33.5	3.9M	1x	2.5B	1x	16	0.32
YOLOv3 [31]	33.0	57.9	34.4	-	-	-	71B	28x	51 [†]	-
EfficientDet-D1 (640)	39.6	58.6	42.3	39.1	6.6M	1x	6.1B	1x	20	0.74
RetinaNet-R50 (640) [21]	37.0	-	-	-	34M	6.7x	97B	16x	27	2.8
RetinaNet-R101 (640)[21]	37.9	-	-	-	53M	8.0x	127B	21x	34	3.6
EfficientDet-D2 (768)	43.0	62.3	46.2	42.5	8.1M	1x	11B	1x	24	1.2
RetinaNet-R50 (1024) [21]	40.1	-	-	-	34M	4.3x	248B	23x	51	7.5
RetinaNet-R101 (1024) [21]	41.1	-	-	-	53M	6.6x	326B	30x	65	9.7
ResNet-50 + NAS-FPN (640) [8]	39.9	-	-	-	60M	7.5x	141B	13x	41	4.1
EfficientDet-D3 (896)	45.8	65.0	49.3	45.9	12M	1x	25B	1x	42	2.5
ResNet-50 + NAS-FPN (1024) [8]	44.2	-	-	-	60M	5.1x	360B	15x	79	11
ResNet-50 + NAS-FPN (1280) [8]	44.8	-	-	-	60M	5.1x	563B	23x	119	17
ResNet-50 + NAS-FPN (1280@384)[8]	45.4	-	-	-	104M	8.7x	1043B	42x	173	27
EfficientDet-D4 (1024)	49.4	69.0	53.4	49.0	21M	1x	55B	1x	74	4.8
AmoebaNet+ NAS-FPN +AA(1280)[42]	-	-	-	48.6	185M	8.8x	1317B	24x	259	38
EfficientDet-D5 (1280)	50.7	70.2	54.7	50.5	34M	1x	135B	1x	141	11
EfficientDet-D6 (1280)	51.7	71.2	56.0	51.3	52M	1x	226B	1x	190	16
AmoebaNet+ NAS-FPN +AA(1536)[42]	-	-	-	50.7	209M	4.0x	3045B	13x	608	83
EfficientDet-D7 (1536)	52.2	71.4	56.3	51.8	52M	1x	325B	1x	262	24

We omit ensemble and test-time multi-scale results [27, 10].

[†]Latency marked with [†] are from papers, and others are measured on the same machine with Titan V GPU.