

Efficiency (time unit: milliseconds/image; “A” for adversarial samples and “B” for benign samples).

Detector	Dataset	LGS		UDF		DetectorGuard		ObjectSeeker		Mode #1		Mode #2		Mode #3	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
FSRCNN	VOC07	34.38	34.16	42.33	42.05	244.67	243.31	3711.02	3704.55	62.44	45.49	52.92	45.49	98.81	53.63
	COCO	29.79	39.74	37.54	35.25	216.32	214.32	4144.83	4223.96	61.70	52.54	56.21	52.58	82.07	77.10
	Inria	50.76	45.81	44.59	35.32	212.29	264.60	3789.28	3774.82	62.99	54.14	64.25	52.57	94.93	93.16
	Indoor	46.17	45.78	38.36	38.06	227.43	247.56	4262.78	5037.56	73.55	41.18	63.46	42.47	75.88	59.40
	Outdoor	36.18	45.94	38.92	38.61	261.55	248.17	4306.34	4282.34	79.11	46.47	67.56	46.24	84.23	50.42

Detector	Dataset	LGS		UDF		DetectorGuard		ObjectSeeker		Mode #1		Mode #2		Mode #3	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
YOLOv2	VOC07	44.60	44.46	48.48	40.16	373.79	372.55	3825.37	3845.85	103.73	61.05	97.47	58.04	116.62	92.42
	COCO	39.60	40.19	41.33	43.67	375.21	372.91	3731.84	3569.69	123.76	75.82	101.21	75.47	135.79	86.28
	Inria	44.95	45.45	39.66	39.49	386.01	389.60	3736.74	3704.29	107.07	70.03	107.07	49.88	120.99	84.96
	Indoor	53.75	52.41	44.28	44.34	380.37	374.70	3975.72	3910.25	70.03	47.42	92.42	46.99	93.63	84.25
	Outdoor	54.11	54.84	45.91	46.30	366.70	377.12	3996.66	3942.15	95.60	45.91	96.43	44.31	134.41	81.70

Detector	Dataset	LGS		UDF		DetectorGuard		ObjectSeeker		Mode #1		Mode #2		Mode #3	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
YOLOv4	VOC07	57.88	48.63	47.43	43.00	177.01	176.11	4274.52	4285.10	110.21	86.73	114.59	85.91	143.49	81.94
	COCO	43.03	40.06	43.97	49.57	179.57	178.19	4214.07	4244.60	113.51	62.93	112.10	62.66	133.61	76.01
	Inria	47.28	49.25	40.48	42.76	194.06	183.18	4121.41	4191.12	114.05	68.97	112.98	69.16	138.89	88.53

Detector	Dataset	LGS		UDF		DetectorGuard		ObjectSeeker		Mode #1		Mode #2		Mode #3	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
YOLOR	VOC07	78.29	77.39	95.74	86.79	1262.27	1259.97	3999.51	4062.69	119.24	74.18	116.01	72.89	126.06	106.50
	COCO	86.00	87.76	88.66	90.55	1260.52	1274.97	4103.94	4116.97	124.47	79.05	120.26	78.06	128.57	109.77
	Inria	91.60	93.10	88.34	94.13	1270.56	1254.00	4098.86	4142.22	125.29	100.60	124.74	98.62	123.91	114.03

Detector	Dataset	LGS		UDF		DetectorGuard		ObjectSeeker		Mode #1		Mode #2		Mode #3	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
YOLOv8	VOC07	72.87	50.29	61.76	59.92	190.37	187.89	1374.46	1378.66	77.90	74.01	75.80	73.12	79.95	75.13
	COCO	73.69	54.14	42.07	62.41	189.71	188.31	1400.48	1409.79	72.38	69.39	72.55	69.47	76.47	71.23
	Inria	86.55	79.56	70.11	60.14	191.41	194.92	1420.11	1433.25	72.85	66.46	73.02	66.44	77.24	68.45