HOUSTON RADAR

RETAIL PRODUCTS COMPARISON

	SPEEDLANE® PRO	ARMADILLO® TRACKER	ARMADILLO® CROSSFIRE
Radar Technology	Side-fire dual beam FMCW (speed trap)	Front-fire tracking Doppler	Side-fire single beam FMCW
Installation Position	Non-intrusive shoulder or median	Non-intrusive shoulder or median	Non-intrusive shoulder or median
Technology Replacement	Dual in-road loop detectors up to 16 lanes	Magnetic sensors, road tubes, inductive loops	road tubes, inductive loops
Per Vehicle Speeds	Yes	Yes	-
Bi-Directional Speed	Yes	Yes	-
Bi-Directional Counts	Yes	Yes	Yes
Max# Lanes Per Direction	16	2	6
Total Number of Lanes	16	2 from shoulder; 4 from median	6
Vehicle Class	8 user-set length classes from 9 to 250 ft (2.7 to 76.2 m)	3 factory-set classes: Small, Medium, Large	-
Ideal Use	Per lane, per vehicle speeds, counts, lengths in all types of traffic up to 16 lanes	Speeds and counts in 2 lane traffic per direction	Per lane counts in all types of traffic
Setup Height	12 to 35 ft (3.7 to 10.7 m)	6 to 12 ft (1.8 to 3.7 m)	12 to 18 ft (3.7 to 5.5 m)
Computer Required for Setup	Yes	No	Yes
Farthest Measurable Lane	255 ft (78 m)	36 ft (11 m)	105 ft (32 m)
Battery Autonomy	Up to 4 days	Up to 2 weeks	Up to 7 days
Power Source	PoE, 12/24 VDC, internal battery or solar	Battery (default) or Solar	Battery (default) or Solar
Solar Panel Size (minimum)	30 Watts	5 Watts	10 Watts
Camera	Color HD snapshot, HD video streaming	-	Color 640x480 snapshot
Storage Capacity	Speed, lane, and class for 1 million vehicles. Per lane average speed, 85th percentile speed occupancy, gap, and headway for 3 months	Speed, direction, and class for 315,000 vehicles	4 months of binned counts per lane
Data Downloads	Full featured SQL server query	Binary download	Binary download
Communication	Bluetooth, serial, Ethernet, 4G or GSM modem	Bluetooth, USB, 4G or GSM modem	Bluetooth, USB
Count Accuracy (typical)	98% up to 16 lanes	97% 2-lane bidirectional, 93% 2-lane unidirectional	98% up to 6 lanes
Speed Accuracy	+/-1 mph average speed per lane, +/-6% per vehicle for 90% of vehicles	+/- 1 mph or +/- 1 km per hour	-
Length Class Accuracy	+/- 5.7ft (1.7m) or 15% whichever larger for 90% of vehicles	90% with less than 20% large trucks	-
Congested Traffic Use	Yes, with degraded specs	-	Yes, with degraded specs
Lowest Measurable Speed	6 mph	2 mph	-
Stopped Traffic Detection	Yes	-	Yes
Weather Resistance	IP66, NEMA 4X	NEMA 4X	NEMA 4X
Software Licensing	Unlimited	Unlimited	Unlimited
"C" and .NET SDK Available	Yes	Yes	Yes
Cloud Server Support	Yes	Yes	-
GPS	Optional	Optional	-
Weight	4.6 lbs (2.1 kg) without battery 6.4 lbs (2.9 kg) with battery	3 lbs (1.36 kg) with battery	3 lbs (1.36 kg) with battery

NOTE: This table is provided as a reference only and is not to be used as official specifications.
FMCW (Frequency Modulated Continuous Wave) Radar can measure distance to objects.
MPPT (Maximum Power Point Technology) An advanced technology to extract maximum power from solar panels in all lighting conditions.

"-" Feature not supported

HOUSTON RADAR

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