ARMADILLO CROSSFIRE VOLUME COUNTER

Armadillo Crossfire is a fully integrated lane-by-lane traffic volume collection device. Featuring small size and no-hassle field setup, it is the leading non-intrusive real-time and archiving traffic count collector in the world.

Features and Benefits

➤ World's smallest FMCW radar based lane-by-lane counter, stopped traffic monitor and incident detector box

➤ Ultra-low power consumption allows over **1 week of run time** on built-in batteries and full autonomy with a small 10W solar panel

➤ Collects **lane-by-lane** vehicle volume counts in up to 6 user defined lanes making it a perfect fit for traffic monitoring and volume study applications

➤ Computes real-time, lane-by-lane **occupancy indicators** for incident detection applications

➤ Simple installation using real-time target map. No calibration, no measurements, no trigonometric computations are required on the road

➤ Built-in color VGA sighting camera makes alignment and setup a snap

➤ Weatherproof security switch for turning unit on and off

➤ Beeper to indicate passing vehicles during setup facilitates high-confidence deployment

➤ Best-in-class 98+% count accuracy per lane

➤ On-board memory to store **4+** months of data

➤ High performance LiFePO4 rechargeable battery pack operates in wide temperature range and allows over 2000 recharge cycles

➤ High speed AC charger for a 3.5hr charge cycle or a standard USB charger for convenient 12VDC car plug or computer charging

➤ USB, long range (1000'line of sight) Bluetooth and RS232 interfaces

➤ Optional high performance integrated **solar charger** with maximum power point (MPPT) technology and10W **solar panel kit** available

➤ Certified for license free worldwide operation

➤ Windows Traffic Statistics Analysis program to generate reports and graphs of vehicle counts

➤ Designed and manufactured in the USA at an ISO9001 certified facility
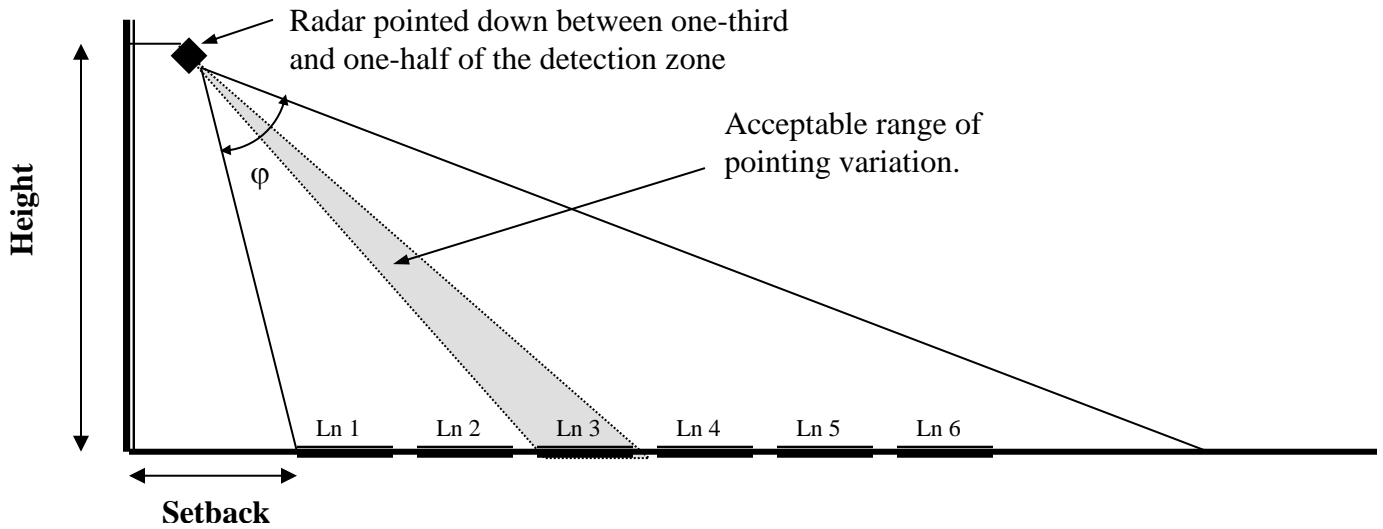
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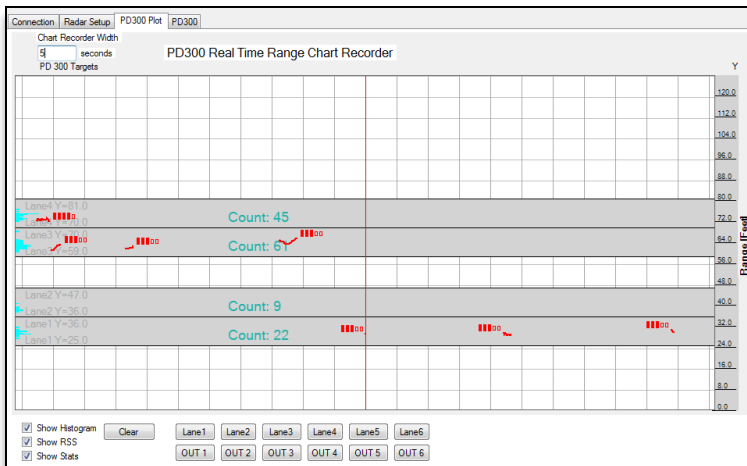

Armadillo mounted on light pole collecting data

Radar pointed down between one-third and one-half of the detection zone

Acceptable range of pointing variation.

Height

φ

Ln 1 Ln 2 Ln 3 Ln 4 Ln 5 Ln 6

Setback

Armadillo Crossfire (φ = 60 degrees)				
Number of 12 feet (4m) lanes	Minimum Setback (ft) Highway/Intersection	Minimum Setback (m) Highway/Intersection	Minimum Height (ft)	Minimum Height (m)
1	6	1.8	4	1.2
2	10	3.0	17	5.2
3	13	4.0	17	5.2
4	15	4.6	20	6.1
5	17	5.2	21	6.4
6	20	6.1	23	7.0

The real time graphic display of targets and built-in sighting camera makes alignment and setup a snap.

HOUSTON RADAR