

Radar Sensors for Traffic Detection

AccuScan 400/500

What, exactly, is the AccuScan 400/500?

The AccuScan 400/500 Series of radar detection sensors use the latest forward-fire radar design and technology to achieve superior traffic detection accuracy and reliability. The AccuScan 400 and 500 radar sensors are ideally suited for intersections requiring stop bar presence detection for up to six lanes of both approaching and departing traffic.

Why do agencies use AccuScan?

With Econolite's AccuScan line of radar detection solutions, transportation agencies and DOTs can manage their intersections for stop line presence detection more effectively based on traffic demand. This enhances safety and efficiency even on curved approaches.

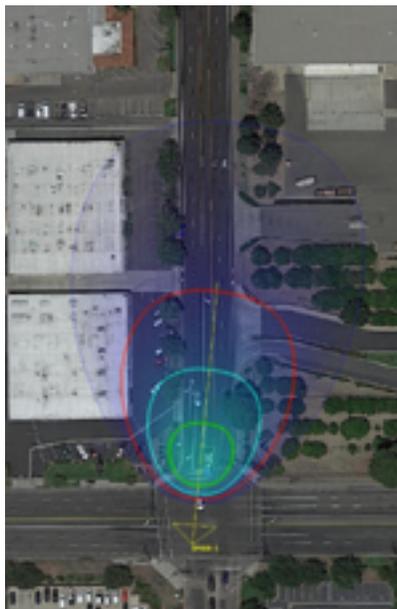
How does AccuScan benefit the driving public?

Econolite's AccuScan line of detection sensors are ideally suited for traffic signal strategies such as adaptive signal control, bicycle detection, and enhancing dilemma-zone safety at high-speed approaches. This helps reduce travel times and traffic congestion, while increasing safety at intersections.





AccuScan 400



AccuScan 500



Function Specifications

Detection Ranges	AccuScan 400	AccuScan 500
Max Range – Car	360 ft	425 ft
Max Range – Truck	360 ft.	425 ft.
Max Detection Range	460 ft.	525 ft
Min Detection Range	10ft.	10 ft
Horizontal FOV (degrees)	-40 to +40	-20 to +20
Vertical FOV (degrees)	-12 to +12	-10 to +10
Max Number of Lanes	6	4
Range Accuracy	Within 1 ft	
Speed Accuracy	Within 1 mph	
Max Speed Tracked	196 mph	
Maxed Objects Tracked	126	

Power, Physical, & Environmental

Mechanical	AccuScan 400	AccuScan 500
Weight	12 oz (340g)	
Dimensions (inches)	4.33 x 3.90 x 1.12	
Dimensions (metric)	110 x 99 x 30.38	
Enclosure	Aluminum - IP67	
Temperature -C	-40 to +85 C	
Temperature -F	-40 to +185 F	
Shock; Vibrations	100g rms; 14g rms	

General

Specifications	AccuScan 400	AccuScan 500
Frequency Band	24.0 - 24.25Ghz (K Band)	
Frequency Band EIRP	20 or 12.7 dBm	
Mounting Height	5 to 32 ft	
Power Supply	+13 to +32 VDC	
Power Consumption	Typically 12W	
Communications	Full Duplex via RS485	
Connection Cable	9 core LAPP cable	

