

Enhancing Safety

A research study by the Texas Department of Transportation (TxDOT) demonstrated that advance detection significantly reduced collision occurrence at intersections. The study on advance detection found:

- 58% reduction in red light violations
- 39% reduction in severe crash frequency
- 80% reduction in heavy-vehicle red light violations

Intersection Features & Options

- Stop bar and advance detection for up to 4 lanes
- Counting and classification
- Wrong way detection
- Speed measurement

Installation Parameters

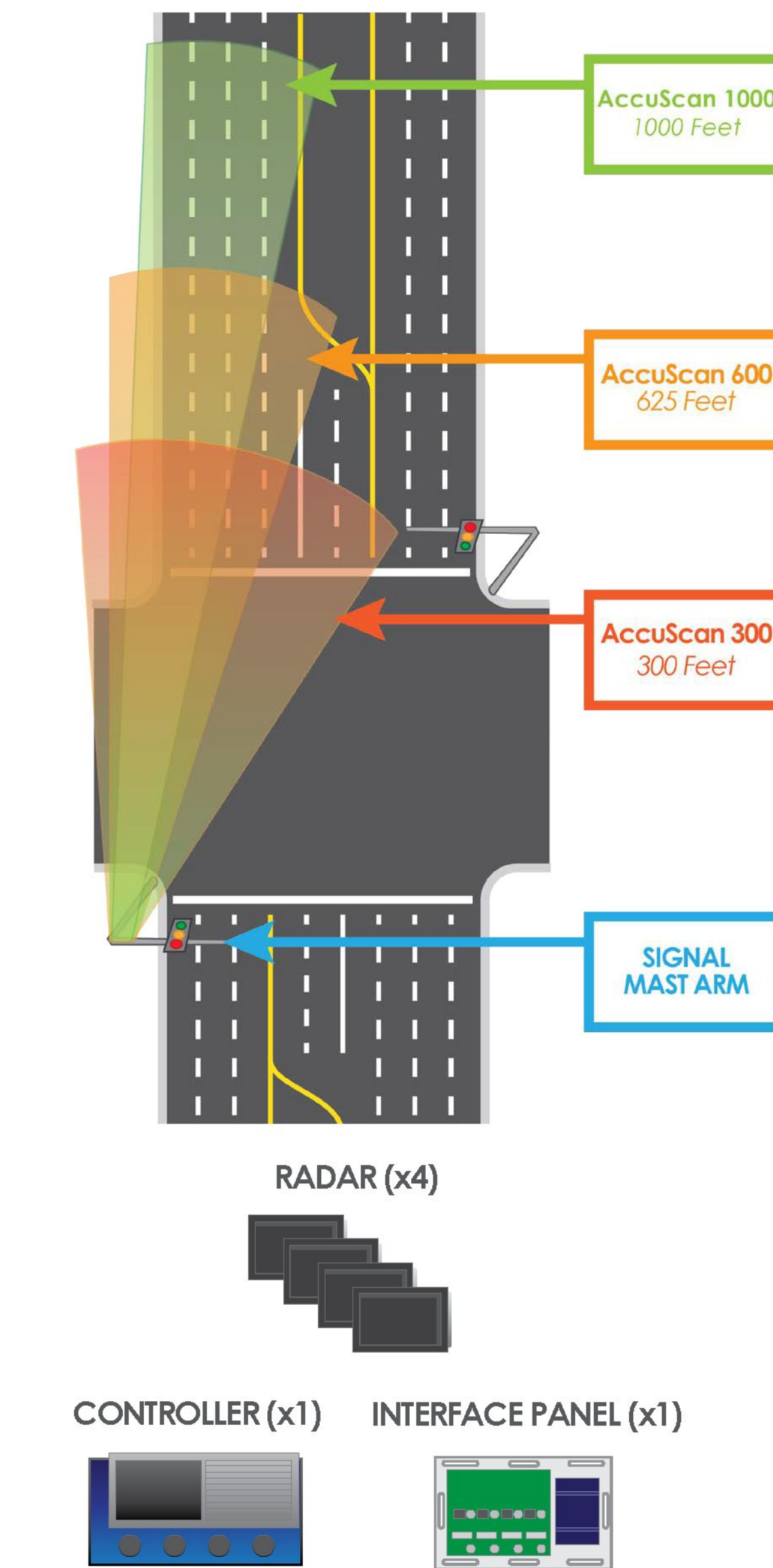
- Traffic Direction: Approaching & Receding
- Typical Mounting Height: 18-24ft (6-8m)
- Typical Sensor Azimuth Angle: -8°
- Typical Sensor Elevation Angle: -6°
- Typical Stop Bar Detection Distance: 60-150ft (20-50m)
- Typical Advance Detection Distance: 150ft-480ft (50-160m)

(Parameters may vary based on site geometry and detection objectives)

General Data

- Sensor Performance
 - Maximum Range Typ: 625 ft (190m)
 - Range Accuracy: Typ. $\pm 2.5\%$ or $\pm 0.25\text{m}$ (bigger of)
 - Speed Accuracy: Typ. $\pm 0.28\text{m/s}$ or $\pm 1\%$ (bigger of)
 - Update Time: $\leq 50\text{ms}$
 - Track Initialization Time: 6-10 cycles
 - Simultaneously Tracked Objects: up to 64
- Interface
 - RS485 half/full duplex
 - 100BaseT Ethernet
- Environmental
 - Ambient Temperature: -40°F to +185°F (-40°C to +85°C)
 - IP 67 (with connector mated)
- Mechanical
 - Weight (Approximate): 11.64oz (330g)

- Dimensions (LxWxH): 4.3in x 1.5in x 3.8in(110mm, 38.1mm, 99mm)
- Connector: Sensor LF10 series circular type
- Power Supply: 24VDC, 3.7W
- Frequency Band: 24GHz
- Compliance
 - ETSI EN 300-440, FCC part 15, RSS-310, RSS-210, SRRC, KCC, NCC
- Warranty
 - 2 Years
- Product support and training available through the EGI Learning Center



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