



HIGH DEFINITION TRAFFIC RADAR

UMRR-11

- ✓ 4D/HD
- ✓ Multi-lane
- ✓ Replaces Loops, outperforms video detectors
- ✓ Detects moving and stopped traffic
- ✓ Works under all conditions
- ✓ Maintenance free



Intersections

- Stop Bar+
- Stop + Advance
Stop Bar and Advance
Detection with one
Single Sensor



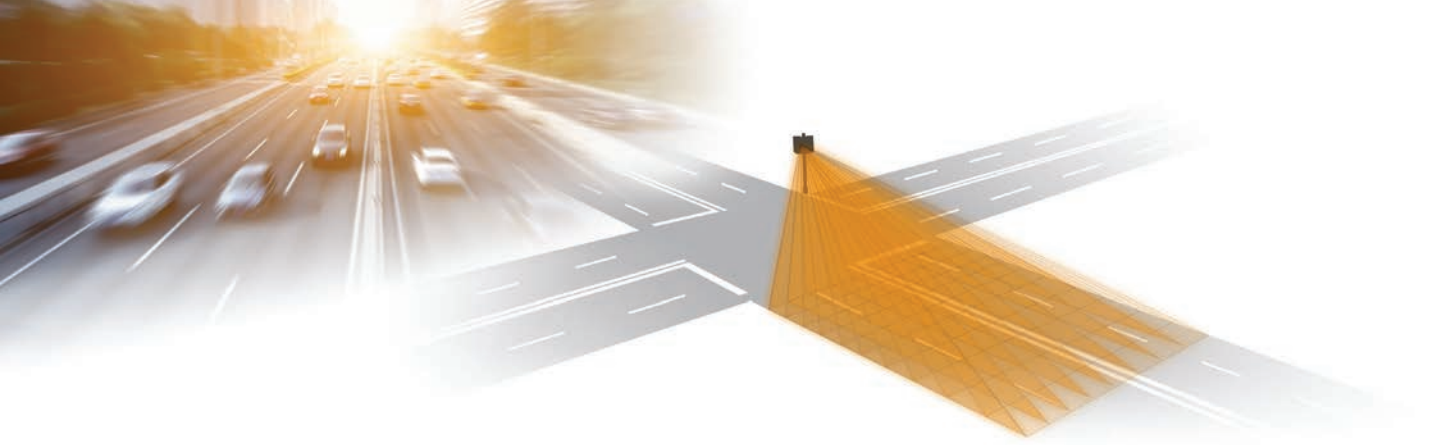
Arterials

- Forward+
Traffic Counting
and Classification



Enforcement

- Red Light Enforcement
- Speed Enforcement
Certified



UMRR-11

	Type 44	Type 45
APPLICATIONS	Stop Bar+ 4D/HD Forward+ 4D/HD	Stop+Advance 4D/HD Forward+ 4D/HD
TECHNOLOGY	4D Object Tracking with HD Resolution	4D Object Tracking with HD Resolution
PERFORMANCE		
Detection Range (Passenger Car)	120m (393ft) / China 85m	150m (492ft) / China 100m
Detection Range (Truck)	180m (590ft) / China 120m	180m (590ft) / China 120m
Maximum Detection Range	180m (590ft)	180m (590ft)
Azimuth Field of View	-40° to +40°	-20° to +20°
Elevation Field of View	-12° to +12°	-10° to +10°
Number of Lanes	Up to 6	Up to 4
Minimum Detection Range	3m (10ft)	
Range Accuracy	typ. $\pm 2.5\%$ or $\pm 0.25m$ (bigger of)	
Speed Accuracy	typ. $\pm 0.28m/s$ or $\pm 1\%$ (bigger of)	
Speed Interval	-88.8 to +88.8m/s (-320 to +320km/h)	
Refresh Time	<75ms	
Simultaneously Tracked Objects	Up to 126	
MECHANICAL		
Weight	340g (12oz)	
Dimensions	110 x 99 x 30.38mm	
Enclosure	Rugged, watertight casing (IP67)	
ENVIRONMENTAL		
Operation Temperature	-40 to +85°C (-40 to +185°F)	
Shock; Vibration	100g rms; 14g rms	
GENERAL		
Frequency Band; EIRP	24.0 to 24.25GHz (K Band); 20dBm or 12.7dBm in certain regions*	
Mounting Height	1.5 to 10m (5 to 32.5ft)	
Power Supply	8 to 32 VDC, <5W	
Connector	12 Pin plug Hirose LF10WBRB 12PD (Bayonet)	
Communication Interface	Ethernet, RS485, CAN Bus, Relays (Option)	
Compatible Interface Modules	NEMA Cabinet Cards (Relays, SDLC), HSDPA/UMTS/GPRS WiFi Modems	

*Can be selected

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