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CRT-RS500-001

Smart Radar

This radar integrates wide-area radar and video fusion technology, combining real-time multi-target detection with advanced algorithms to analyze multi-dimensional data. It outputs traffic statistics, queue lengths, regional status, and video streams, primarily for urban intersection monitoring and adaptive traffic control.





Application

- Traffic flow statistics
- Road safety alerts
- Roadside parking monitoring
- Perimeter security
- Traffic signal control systems
- Intersection vehicle detection

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Technical Specifications

General Parameters			
Operating Frequency		79-81GHz	
Operating Voltage		9-36V	
Current Consumption		Average: 220mA; Peak: 310mA	
Detection Range		260m	
Communication Interface		CAN, RS485, TTL	
Operating Environment		-40°C~85°C, 0 ~ 95 % RH (non-condensing)	
Storage Environment		-40°C~105°C, 0 ~ 95 % RH (non-condensing)	
Protection Rating(with housing)		IP67	
RF Parameters			
Performance		Short Range	Long Range
Distance	Range	0.5 ~208m	0.5 ~ 260m
	Accuracy	±0.2m	±0.25m
	Resolution	0.8m	1m
Speed	Range	±60m/h	
	Accuracy	±0.1m/s	
	Resolution	0.14m/s	
Angular	Range	±45°	
	Accuracy	±0.5°@0°	
	Resolution	2.87°@0°	
Beamwidth	Azimuth(-6dB)	±14°	±6°
	Pitch (-6dB)	±5°	±5°
Detection Targets		Dynamic & Static	
Max Targets Tracked		200	
Update Rate		10Hz	
Operating Frequency		79~81GHz	
Camera			
Image Resolution		2560 x 1440	
Sensor Size		1/3 inch	
Focal Length		12mm	
Max Frame Rate		30FPS	