



3KM Coastline Surveillance Radar

CSR501-1C3K/2C3K/3C3K

CSR501-4C3K

CSR501 series radar works in C-band and adopts fully digital active digital phased array technology.

Through modularization and fine design, it makes comprehensive use of adaptive moving target detection, digital T/R (transmitting/receiving), DBF (digital beam forming), analog and digital integrated design and other technical means.

It is mainly composed of radar array and distribution control box, which is used for detection, warning and target indication of moving ships in the offshore area. It can give the track information of the target in real time and accurately.

Features

- Phase-sweep phased array system and electrical scanning on azimuth to carry out non-uniform detection
- Simple installation, light weight, easy to use and fast erecting by individuals
- Adaptive moving target detection and doppler clutter suppression technology
- Digital T / R technology and highly integrated RF and digital integrated design technology;

Application

- Marine fishing port management
- Auxiliary navigation in inland river
- Channel assisted navigation



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Item	Specification
Working mode	Phased array + Pulse Doppler
Working frequency	C band (5 working frequency point)
Maximum detection range	3 km (5m~10m Fishing boat)
Minimum detection range	≤100m
Azimuth coverage	≥ 90° (single panel) / 180° (double panels)
Elevation coverage	18°
Distance accuracy	≤10m
Azimuth Accuracy	≤1.0°
Target detection speed	0.5m/s - 30m/s
Speed accuracy	≤0.2m/s
Data rate	≥ 1 time/s
Net weight	Radar single panel : ≤4.0kg Distribution control box : ≤2.5kg
Power consumption	≤ 65W (Single panel) /100W (Double panels)
Power supply	AC200V~240V
Interface	RJ45 / 1-channel 100 MB Ethernet (UDP protocol)
Dimension	Radar single panel : 324mm×298mm×86mm Distribution control box : 265mm×230mm×75mm
Working temperature	-40 °C ~ +55 °C
Reliability & Maintainability	MTBCF : ≥ 20000h & MTTR : ≤ 0.5h
Working Environment	Rain-proof; Dust Prevention; Sand-prevention; Moisture-proof, Mould-proof and Salt-proof