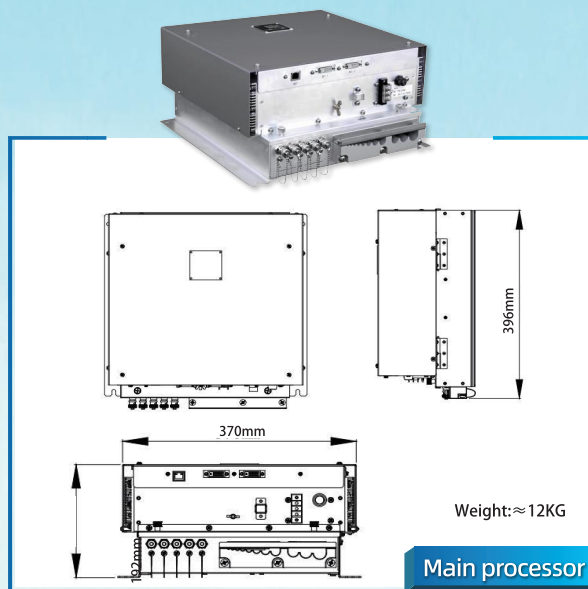
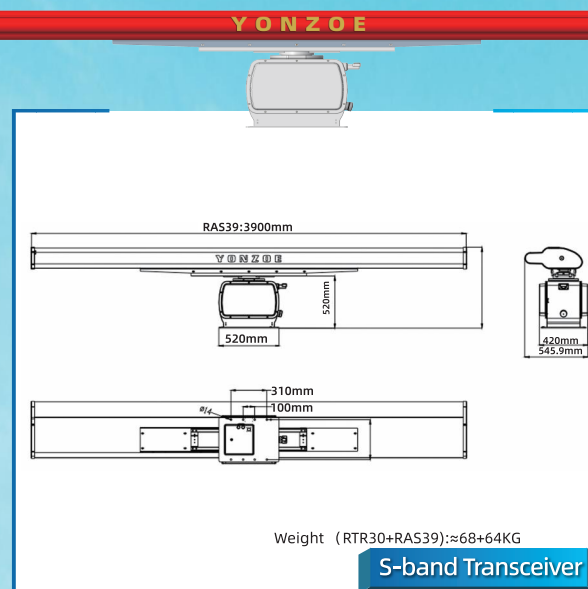
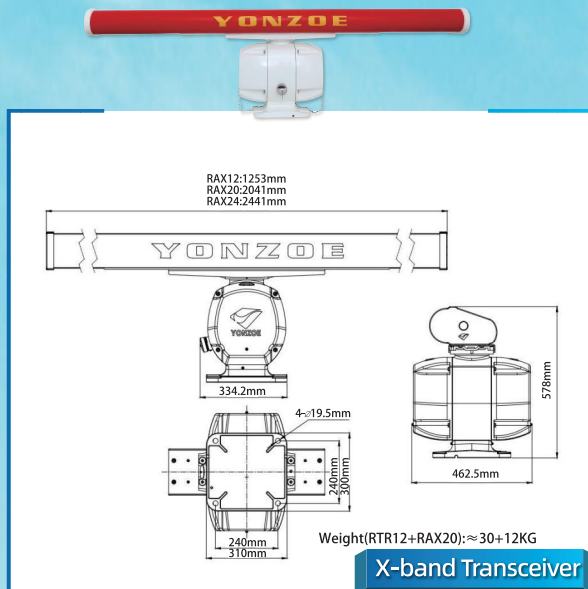


1 The YAR27 Series IMO Marine Radar



Features

- Unique suppression technology for noise reduction, wave clutter, and rain clutter .Excellent performance in small targets detection, far in distance.
- Relative and ground true trails function, monochromatic or gradual in trail color,easy to identify the moving vessels.
- Up to 200 ARPA targets(TT), and 1000 AIS targets, support fusion of the TT and AIS targets.
- Rich radar map marks, 200 waypoints,30 nav-lines.
- Setting polygon surveillance area by mouse or Latitude/Longitude, suitable for specific area monitoring, such as fish farms.
- Complete self-test function, with modular architecture, easy to maintain.
- Support manual heading and position input, convenient for shore-based platform surveillance, no compass and navigator needed.
- Support bilingual menu, Chinese or English.
- Optional built-in radar Performance Monitor.

SPECIFICATIONS

• Antenna & Scanner Unit

Name	Parameters				
Model	X-band		S-band		
Output frequency	9410±30MHz		3050±30MHz		
Output power (peak)	RTR12	RTR25	RTR30		
	12.5kW	25.0kW	30.0kW		
Antenna	Type	Slotted waveguide array			
	Polarization	Horizontal			
	Model	RAX12	RAX20	RAX24	RAS39
	Length	4ft (1.2m)	6.5ft (2m)	8ft (2.4m)	13ft (3.9m)
	Beam width(H)	1.85°	1.25°	0.95°	1.80°
Beam width(V)	22°	22°	22°	23°	
Sidelobe within±10°	-24dB	-28dB	-28dB	-24dB	
	-30dB	-32dB	-32dB	-30dB	
Rotation	24rpm				
Pulse length	0.075us;0.15us;0.3us;0.5us;0.7us;1.2us				
Pulse repetition frequency	500Hz;1000Hz;1500Hz;3000Hz				
If	60MHz				
Minimum range	25m				
Range discrimination	25m				
Range accuracy	1% of maximum range in use or 30m, which is greater				
Bearing accuracy	≤1°				

Environmental conditions

Ambient temperature	-25° C~+55° C	IEC 60945 Ed.4
Storage temperature	-30° C~+70° C	IEC 60945 Ed.4
Waterproof	IPX6	IEC 60529

Performance Monitor

Model	RPM-X	RPM-S
frequency	9410±45MHz	3050±45MHz
Input power	+8~-+28dBm	
Input pulse length	≥1us	
Output power (2nd pulse)	-56~-36dBm	
Step level	+9~-11dB First to second pulse	
Temperature	-30° ~+80° C	

*RPM is an optional

• Display & Processor Unit

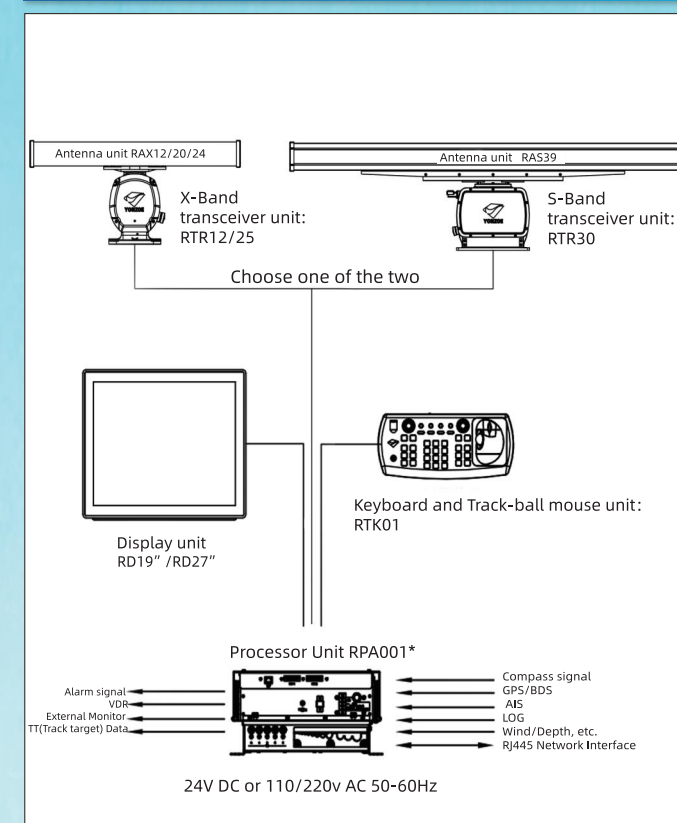
Name	parameters	Note
Display size,model	RD19x 19.0" 290mm	RD27x 27" 323mm
Effective radar diameter	1280X1024	1920X1080
Resolution	Yellow ,Green echoes in 32 levels	
Color	(NM) or (km)	
Range unit	Head up ; Head up true bearing ; North up ; North up true motion; Course up ; Stem up ;	
Display mode	15s-25min selectable	
Relative or true trails	Max 200ARPA target; 0.1N-24NM	
Target track	1000 targets	
AIS	IMO SN/Circ.217; IEC/PAS 60936-5	
Radar map	Navline, waypoints, shorelines, buoys, etc.	
Range (NM)	0.125 0.25 0.5 0.75 1.0 1.5 2 3 6 12 24 32 48 96	
No. of rings	5 5 5 5 5 5 4 6 6 6 6 6 4 6 8	
Ring interval (NM)	0.025 0.05 0.1 0.15 0.2 0.3 0.5 0.5 1 2 4 8 8 12	
Interface	HBT; GPS/BDS; AIS; LOG; WIND; DEPT; VDR;ARPA DATA;ALARM;RJ45	
Power	Monitor	110VAC (85-130V)-2.0A 220VAC (170-260V)-1.0A 24VDC (18-36V)-10A
	Processor	110VAC (85-130)-4.0A 220VAC (170-260)-2.0A 24VDC (18-36V)-20A
Temperature	xx:19" 或 27"	
Ambient temperature	-15° C~+55° C IEC 60945	
Storage temperature	-30° C~+70° C IEC 60945	
Waterproof	IPX0	

*Connecting cables: 30m Standard, cable mode is "RC25".

C

MARINE RADAR

CONNECTIONS



SELECTION TREE

