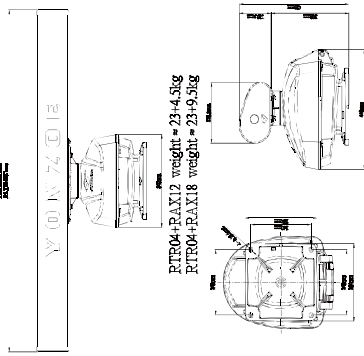
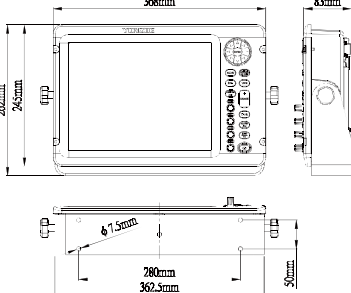


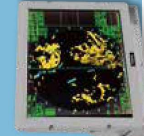
3 The YR19 Series Marine Radar



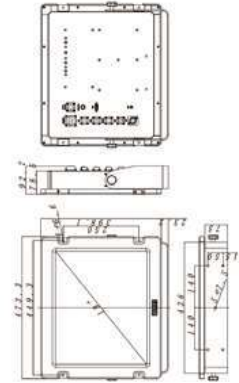
Transceiver



12.1" Displays



(Optional)



19.0" Displays

FEATURES

- Inheriting the advantages of YAR27 technology and excellent performance
- Advanced noise and clutter suppression technology, good ability to detect small targets.
- Good performance in wave and rain suppression.
- 12.1"/15"/19" color display, with resolution 800x600 or 1024x768 or 1280x1024.
- Relative and true trail function, easy to find moving targets.
- Up to 30 ARPA targets, and 500 AIS targets.
- Bilingual between Chinese and English.
- Completely self-test function, with modular architecture, easy to maintain
- Suitable for 12 V / 24 V DC applications, range from 12Vto 36VDC

SPECIFICATIONS

• Antenna & Scanner Unit

Name	Parameters
Antenna Type	Slotted waveguide array,
Working frequency	9410±30MHz, X-band
Peak power	4kW/6kW/12.5kW
Antenna polarization	Horizontal
Antenna speed	24RPM(1200m relative velocity),36RPM(700m relative velocity)
Type	RAX12C(Open) RAX18C(Open)
Length	4ft(1.2m) 6ft(1.8m)
Beam Width(h)	1.85°
Beam width and Sidelobe suppression	22°
Side Lobe Within ±10°	<24dB
Side Lobe Outside ±10°	<32dB
Pulse type	Length(us) PRF(Hz)
Pulse width and pulse repetition frequency	S 0.08 2100
	M 0.3 1200
	L 0.8 600
IF	60MHz
NF	6dB

• Display & Processor Unit

Name	Parameters
Type	RDS12 RDS15 RDS19
Display size	12.1" 15" 19"
Mini-effective diameter	183mm 222mm 290mm
Resolution	800x600 1024x768 1280x1024
Range(NM) No. of rings and Ring interval(NM)	Range 0.125 0.25 0.5 1 1.5 2 3 6 12 24 32 48 64 No. of rings 5 5 5 4 4 4 4 6 6 6 4 4 4 Ring interval(NM) 0.025 0.05 0.1 0.25 0.25 0.25 0.5 1 2 4 8 8 16
Minimum range	25m
Range Discrimination	25m
Range accuracy	1% of maximum range in use or 30m, which is greater
Azimuth accuracy	1°
Display mode	Heading up, heading up true bearing, North up, North up true motion, Course up
Tuning	Manual or automatic
ARPA Qty	Automatic or manual acquisition up to 30 targets, 0.1NM-24NM
AIS	Up to 500 targets
Radar map	NAVLINE, waypoints, shorelines, buoys, etc.
Alert area	One settable sector area
Self-test	Voltage, current, temperature, interface information, software version, interface data, etc.
Ambient Environmental	
Operation temperature	Outdoor(antenna and transceiver) -25℃~-55℃ Indoor(host and display) -15℃~-55℃
Storage temperature	-30℃~+70℃
Relative humidity	95% (+40℃)
Waterproof	
Outdoor devices	IPX6
Indoor host machine	IPX3
EMC	In accordance with relevant specifications and clauses of CE60954-4.
Interface	
Input signal	IS, TID(Gyroscope or Satellite Sutra), EPRS(GPS or BDS positions), SMD(Speedometer or satellite location)
Output signal	Alarm output, VGA/DV output, TTDATA(Optional)
Power supply	
Nominal (V)	Range (V)
Power (W)	Power (W)
DC	24 10~36 <100

SELECTION TREE

