



## NT-Racon

Radar beacon NT-Racon is a new generation of radar beacon. The new direct signal forwarding processing technology can process any waveform of navigation radar signals, so it can respond to both traditional magnetron radar and new technology solid state radar without the solid state radar adjusting its radar signal mode. Meanwhile direct signal forwarding processing technology can avoid the response saturation and response omission encountered by racons which use signal comparison technology.

Radar beacons use separate transmission and receiving antennas, and the response time is almost non-delayed, which is an all-weather electronic navigation devices.

### Main features:

- Conform to IALA recommendation R-101, IALA Guideline No 1010
- Conform to ITU recommendations ITU-R.824-4
- Conform to IMO Resolution A.165(15)
- Compatible to both magnetron radar and NT solid-state radar.
- Almost without delay.
- Capable to response to multi radars at the same time and suitable for application in busy harbour.
- No response saturation and response omission.
- It can be divided into port type, coastal type and ocean type, which are suitable for different response distances.
- Aluminum housing with explosion proof
- Cooperate with the enhanced radar to realize the ERPS positioning function (to be customized).



### Product index:

Frequency	X band:9300~9500MHz	IP protection level: IP65
Frequency accuracy	$\pm 1.5\text{MHz}$ , pulse width $\geq 0.2\mu\text{s}$ $\pm 1.5\text{MHz}$ , $0.05\mu\text{s} < \text{pulse width} < 0.2\mu\text{s}$	Serial port: can be used for remote monitoring (with AIS)
Output Power	$\leq 1\text{W}$	Input voltage: DC12V (12~36V)
Return Pulse Width	0.05us-200us	Power consumption: $\leq 20\text{W}$
Reply Delay	$< 0.5\mu\text{s}$	Operating temperature: $-40 \sim +70\text{ }^{\circ}\text{C}$
Reception sensitivity	X- band: Better than - 55dBmw	Overall dimensions: $\Phi 240\text{mm} \times 1420\text{mm}$
Antenna polarity	X-band: horizontal	Installation size: 4-M10, 225mm PCD
Maximum Reply Frequency	10 kHz	Weight: $\leq 12\text{kg}$
Antenna gain	X: 6dB	
Reply to Morse Code	26 English letters and numbers	
Divergence angle	$\geq 22\text{ Degrees}$	
Lightning Protection	2000 volts	
Working hours	Working time: 15~60secs Sleep time: 15~45secs	

Specifications can be changed without notice. Please refer to agency or manufacturer.