



NEW

QUANTUM™

WIRELESS CHIRP RADAR



UNDERSTANDING RADAR RANGE AND TARGET HEIGHT

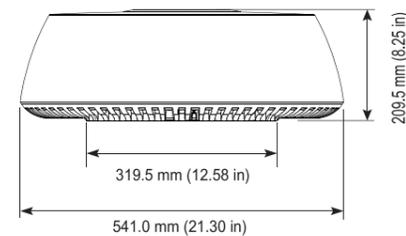
The mounting height of your scanner above the water directly impacts the minimum and maximum target detection range. Quantum can detect objects as close as 18' (5.5 metres) away.

SPECIFICATIONS

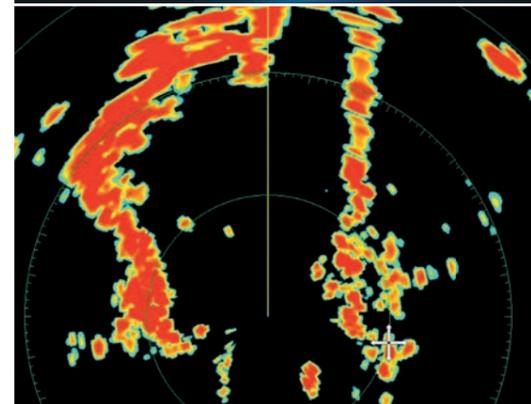
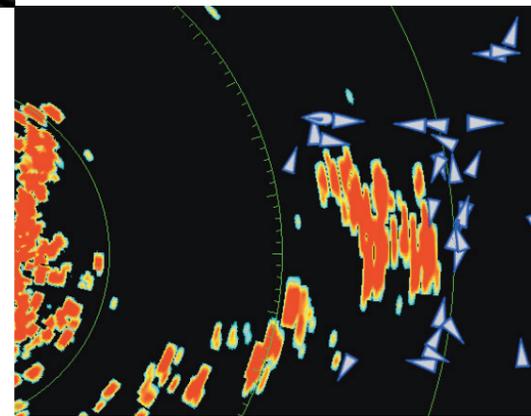
| | |
|---------------------|---|
| Input Voltage | 12 or 24 Vdc (Min: 10.8V, Max: 31.2 V) |
| Networking | Wi-Fi or wired Ethernet (RayNet) |
| Antenna Type | Patch Array |
| Power Consumption | Transmit mode 17W; standby mode 7W; sleep mode 2W |
| Max. Range Scale: | from 1/16 to 24 nautical miles |
| Transmit Frequency | 9354 to 9446 MHz |
| Peak Power Output | 20W |
| Duplexer | Circulator |
| Pulse Widths [3 dB] | 40 ns to 14.7 µs |
| CHIRP Lengths | 400 ns to 20 µs |
| CHIRP Bandwidth | Up to 32 MHz |
| IF Bandwidth | 26 MHz |
| Noise | Less than 4 dB |
| Beamwidth (nominal) | 4.9° horizontal and 20° vertical |
| Polarisation | Horizontal |
| Waterproofing | IPX6 |
| Weight | 5.6 kg (12.3 lb) |

SIMPLIFIED INSTALLATION

- Simple Wi-Fi connection between Quantum and any Raymarine LightHouse II-powered MFD
- Quantum's small diameter power cable is easy to route through tight spaces
- Easy to upgrade – Quantum uses the same bolt pattern as previous generation radars.
- Optional Quantum adapter cable eliminates the need to run new radar cables



Product features and specifications sometimes change without notice. Please visit our website for latest product information. Some images in this brochure have been used for illustration purposes only.



Quantum Radar is the world's first compact marine radar to use CHIRP pulse compression technology. Setting a new standard for solid state marine radar, Quantum delivers superior radar imaging on both long and extremely short ranges. Integrated Wi-Fi makes installation easy and Quantum's energy efficient and lightweight design provides safe radiated emissions and reduced power consumption.

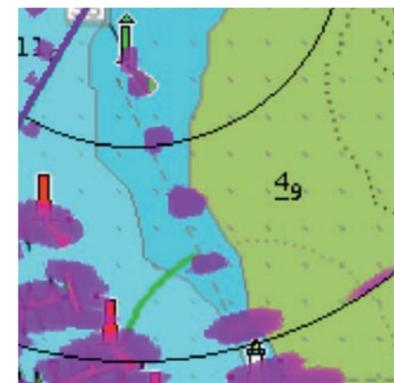
SUPERIOR PERFORMANCE

- Quantum's CHIRP Pulse Compression technology uses multiple compressed radar pulses with FLIR's exclusive ATX™ advanced target separation technology
- Quantum with ATX™ displays targets like boats, landmarks, buoys, and weather cells with unsurpassed resolution and separation quality versus traditional magnetron radars.
- Excellent short-range detection and enhanced target detail with 18' (6m) minimum range
- Immediate awareness – Quantum starts up and is ready to go in seconds
- Superior interference rejection eliminates noise from other radars

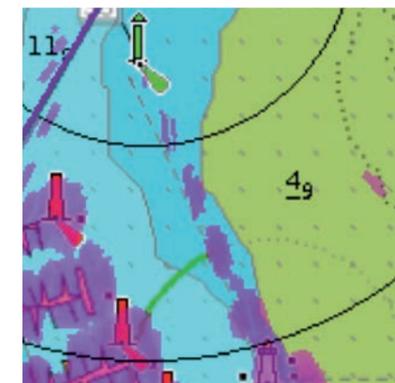


ENERGY EFFICIENT AND LIGHTWEIGHT DESIGN

- Weighs 50% less than traditional magnetron radars
- Safe emissions thanks to Quantum's low power solid state transmitter
- Very low power consumption (17W transmit and 7W standby)
- Extended vessel battery life when under sail



Quantum



Magnetron radar

BETTER RANGE RESOLUTION

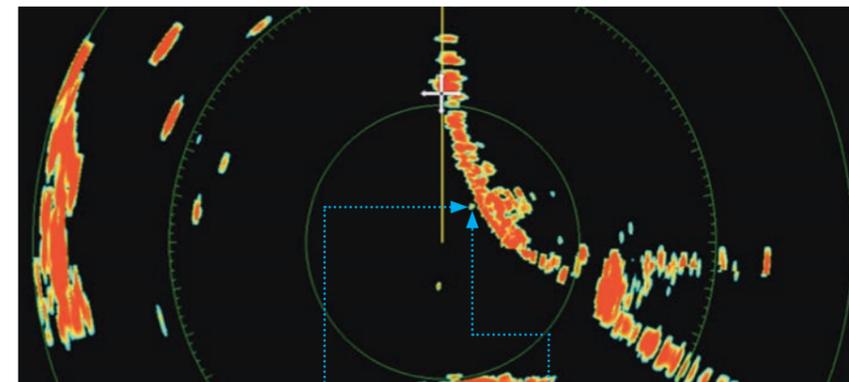
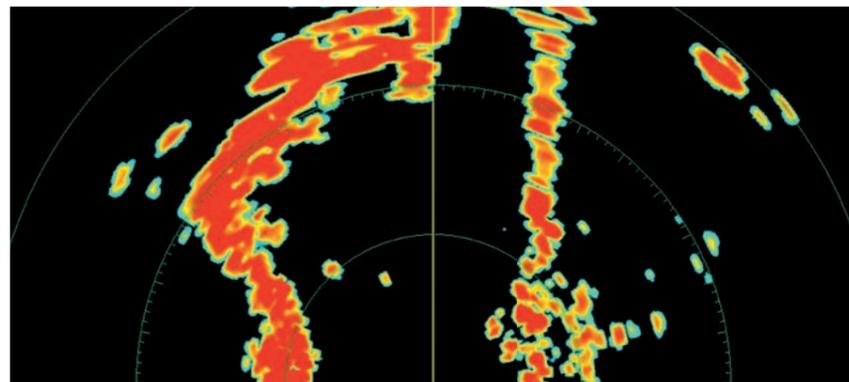
Range resolution is a radar's ability to separate targets within individual spokes of the radar pulse. Quantum uses compressed high intensity pulses (CHIRP) to deliver much greater range resolution than traditional magnetron radars.

QUANTUM PERFORMANCE FEATURES

- CHIRP pulse compression technology delivers sharper targets on both long and short ranges
- FLIR's exclusive ATX™ advanced radar target separation technology
- 18ft (5.5m) minimum range
- Fast start-up solid state transmitter
- 256 colour palette for enhanced target identification
- 24nm maximum range
- Dual radar compatible

EXCEPTIONAL DETAIL AND CLARITY

Sharp, crisp targets and automatic sea clutter rejection produce radar images with stunning clarity.



SHORT RANGE PERFORMANCE

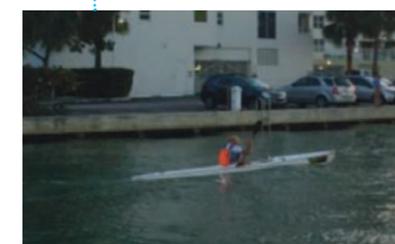
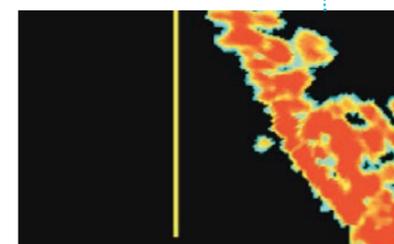
Quantum's CHIRP Pulse Compression technology is substantially better at identifying targets at close range when compared to a traditional magnetron radar.



Quantum



Magnetron radar



FLIR ATX™ ADVANCED TARGET SEPARATION TECHNOLOGY

Quantum identifies small, weak targets, even when positioned close to strong returns like this kayaker close to the seawall.



Quantum is compatible with Wi-Fi enabled a/c/eS/gS Series multifunction displays.