Broadband 4G™ Radar–The death of the pulse?

Marine electronics leaders B&G, Simrad Yachting and Lowrance are pleased to announce the arrival of Broadband 4G™ Radar. From the same family as the award-winning BR24 and the pioneering Broadband 3G™, this ground breaking FMCW technology radar is set to change the way you navigate for good.

As with Broadband 3G, this new 4G radar has all the impressive features FMCW technology brings, and so much more including:

- Unmatched resolution
- A crystal clear image
- Extremely low emissions
- InstantOn Technology
- Low power consumption
- Incredible Ease of Use—Auto Clarity
- Quick, simple Installation

Forget everything you thought you knew about radar, the Broadband 4G™ Radar reinvents the standard thanks to Beam Sharpening, Target Separation Control, Dual Range Radar, and High revolution speed—features that will transform the way you navigate for good.

Beam Sharpening—Broadband 4G is the first dome radar in the world to use beam sharpening. This technology significantly improves the azimuth resolution—or effective horizontal beamwidth of the radar providing the best target resolution of any dome radar available.

Target Separation Control*—this feature allows the user to adjust the levels of target separation according to their needs and, thanks to Beam Sharpening, can provide resolution up to the equivalent of a three and a half foot open array radar.

Dual Range Radar—When combined with the Simrad NSE, Broadband 4G™ has the capability to display dual range radar combinations from a single scanner, and allows boaters to benefit from revolution speeds up to 48rpm.

No other recreational radar in the world can display dual range from 200 feet to 36nm in a single dome. Now you can monitor a buoy 200 feet away and keep track of coastal projections at 36nm at the same time, for the ultimate in navigational safety.
Advances in FMCW technology now mean that the Broadband 4G is as competitive at distance as it is at close range. When combined with the latest award-winning multifunction display units from Simrad Yachting, B&G and Lowrance, Broadband 4G™ Radar offers an unrivalled total of 18 working ranges that include a 36 nautical mile range for increased performance and situational awareness.

In addition, Broadband 4G Dual Range operation allows up to 10 MARPA targets in each split radar screen with independent controls—for a total of 20 tracked targets.

Conventional pulse radar is limited to showing targets that are about 80 feet (24m) or more away, whereas Broadband Radar is able to see targets right up to the bow of your boat. It’s worth remembering that 100% of all boat collisions occur within this conventional radar ‘blind spot.’

Broadband 4G™ also benefits from unrivalled clutter reduction with Directional Sidelobe Clutter Suppression for large targets and improved sea clutter rejection, which allows target clarity at a glance even in high sea states.

Pre-defined Offshore and Harbour modes provide hands-off operation on all ranges without the need for special knowledge or radar tuning, giving the boater all the confidence of a highly trained radar user.

Unlike any other conventional radar available today, you can rest assured that passengers and crew alike are safe when the Broadband 4G™ is onboard, as it emits less than one fifth of the radiation of a mobile phone and is safe at any distance. And thanks to InstantOn technology, Broadband 4G is always ready for action with no warm up time. When combined with enviable range and the best resolution of any radome on the market, the Broadband 4G marks the birth of a revolution and the death of the magnetron pulse radar.

* Currently available with Simrad NSE, other MFDs will have future functionality