



Raymarine's most advanced solid-state marine radar, the Quantum® 2 with doppler target identification technology

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## Raymarine: FLIR Announces Raymarine Quantum 2 CHIRP Radar with Doppler Technology

*Doppler Enhanced Radar Imagery Delivers Improved Awareness and Safer Navigation*

**WILSONVILLE, OR – February 15, 2018** – FLIR Systems, Inc. (NASDAQ: FLIR) announced today their most advanced solid-state marine radar, the

Quantum® 2 with doppler target identification technology. Designed for integrating with Raymarine's award winning Axiom® multifunction displays, Quantum 2 enhances boater's situational awareness by intelligently identifying moving and static targets at both long and short ranges.

Using advanced doppler processing, Quantum 2 is tuned specifically to detect the radar echo frequency shift returned by moving versus stationary targets. Quantum 2 then uniquely color codes moving targets to indicate whether they are getting closer (red) or moving away (green). In addition, Quantum 2 brings a new Safety Sector feature that highlights and color codes any potentially dangerous static targets within 200 meters in front of the vessel, making it easier for captains to recognize immediate hazards to navigation.

Advanced users and professional captains will appreciate Quantum 2's 25-target mini-automatic radar plotting aid (MARPA). Developed originally for the United States Coast Guard and other fast response craft, Quantum 2's MARPA feature is doppler-assisted, meaning inbound contacts can be acquired automatically by the radar display. This eliminates the need to manually acquire targets or define guard zones, thus reducing the workload on captains and eases navigating congested waterways.

Quantum 2 also features CHIRP Pulse Compression technology using compressed, radar pulses to display targets like boats, landmarks, rocks, and weather cells with unsurpassed resolution and separation quality. At only 12.3lbs. (5.6 kg), Quantum 2 weighs up to 50 percent less than traditional magnetron radars. Quantum 2's flexible design allows for Wi-Fi networking to Raymarine multifunction displays (MFDs) or via traditional wired configuration, making installation much easier and eliminating the need for additional radar cabling or interface boxes.

Quantum 2 will be available worldwide in the second quarter of 2018 through Raymarine's authorised network of dealers and retailers starting at \$1,949.99 USD/ € 2,095.00 EUR/ £1,870.83 GBP. For more details about the Quantum 2, visit: [www.raymarine.com/quantum2](http://www.raymarine.com/quantum2)

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## **About FLIR Systems**

*Founded in 1978 and headquartered in Wilsonville, Oregon, FLIR Systems is a world-leading maker of sensor systems that enhance perception and heighten awareness, helping to save lives, improve productivity, and protect the environment. Through its nearly 3,500 employees, FLIR's vision is to be "The World's Sixth Sense" by leveraging thermal imaging and adjacent technologies to provide innovative, intelligent solutions for security and surveillance, environmental and condition monitoring, outdoor recreation, machine vision, navigation, and advanced threat detection. For more information, please visit [www.flir.com](http://www.flir.com) and follow [@flir](https://twitter.com/flir).*

## **About Raymarine:**

*Raymarine, a world leader in marine electronics, develops and manufactures the most comprehensive range of electronic equipment for the recreational boating and light commercial marine markets. Designed for high performance and ease of use, the award-winning products are available through a global network of dealers and distributors. The Raymarine-branded product lines include radar, autopilots, GPS, instruments, fishfinders, communications, and integrated systems. Raymarine is a brand of FLIR Systems, a world leader in thermal imaging. For more information about Raymarine please go to [www.raymarine.com](http://www.raymarine.com)*

## **Forward-Looking Statements**

*This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements may contain words such as "anticipates," "estimates," "expects," "intends," and "believes" and similar words and expressions and include the assumptions that underlie such statements. Such statements are based on current expectations, estimates, and projections based, in part, on potentially inaccurate assumptions*

*made by management. These statements are not guarantees of future performance and involve risks and uncertainties that are difficult to predict. Therefore, actual outcomes and results may differ materially from what is expressed or forecasted in such forward-looking statements due to numerous factors. Such forward-looking statements speak only as of the date on which they are made and FLIR does not undertake any obligation to update any forward-looking statement to reflect events or circumstances after the date of this release, or for changes made to this document by wire services or Internet service providers.*