

FURUNO

RADAR

Model: FAR-22x8 series

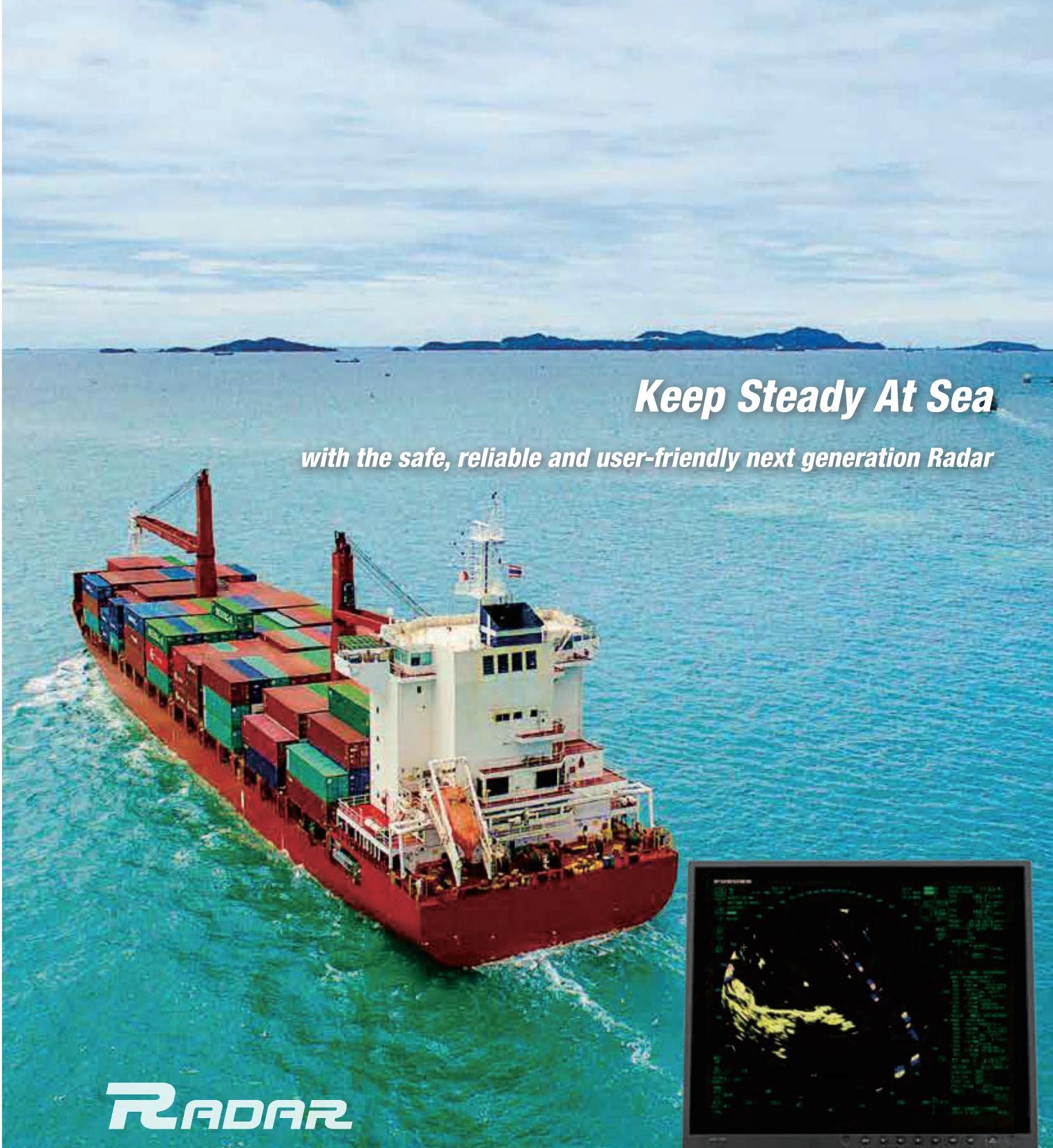
Keep Steady At Sea

with the safe, reliable and user-friendly next generation Radar



Marine Electronics &
Satellite Communications
www.mackaymarine.com

www.furuno.com



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RADAR

FAR-22x8 series

for Category 2 of ship/craft, with 19" LCD

FAR-2218/FAR-2218-BB

X-band, 12 kW, TR up

FAR-2228/FAR-2228-BB

X-band, 25 kW, TR up

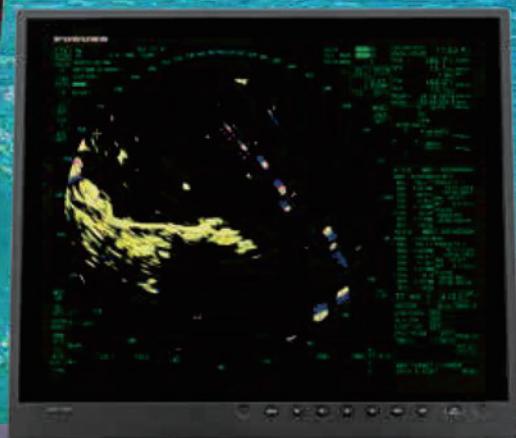
FAR-2228-NXT

X-band, 600 W, TR up, Solid State

FAR-2238S/FAR-2238S-BB

S-band, 30 kW, TR up,

FAR-2238S-NXT/FAR-2238S-NXT-BB S-band, 250 W, TR up, Solid State



Complies with the following regulations:
IEC 62388 Ed.2.0 IEC 61162-1 Ed.5.0
IEC 62288 Ed.2.0 IEC 60945 Ed.4.0
IEC 61162-2 IEC 61162-450

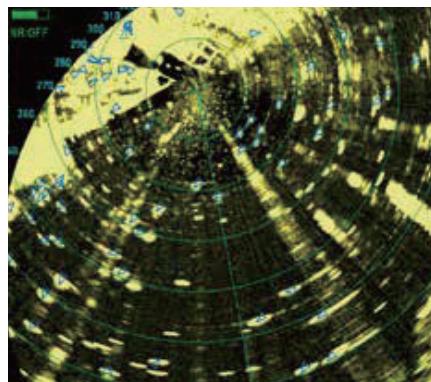
Advanced technologies for navigation safety

The Furuno FAR-22x8 series is a brand-new Radar series characterized by its state-of-the-art antenna design and innovative signal processing technologies.

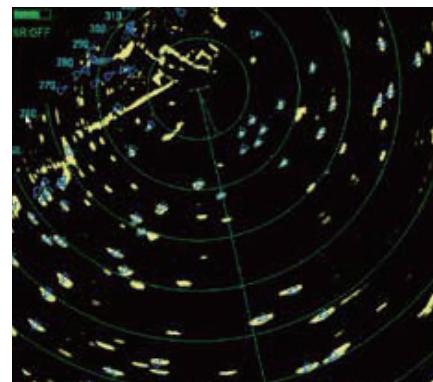
Furuno's latest, advanced technologies and intuitive design will increase situational awareness, facilitating unparalleled navigational safety.

► Automatic Clutter Elimination (ACE) for unprecedented echo clarity

Quickly adjusts the Radar image with a single button press. When the ACE function is activated, the system automatically optimizes clutter reduction filters and gain control according to the sea and weather conditions.



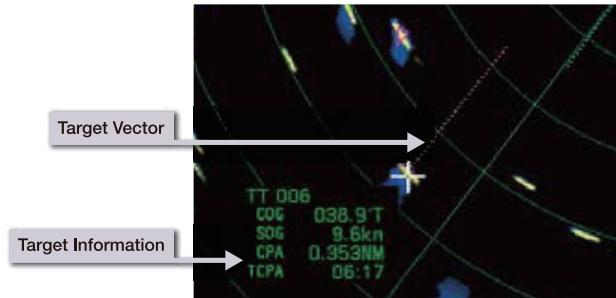
ACE OFF



ACE ON

► Fast Target Tracking™ function provides early-stage collision avoidance

With Fast Target Tracking™, the FAR-22x8 series provides accurate tracking information; speed and course vectors are displayed in mere seconds allowing operators to take action and avoid incidents at a very early stage.



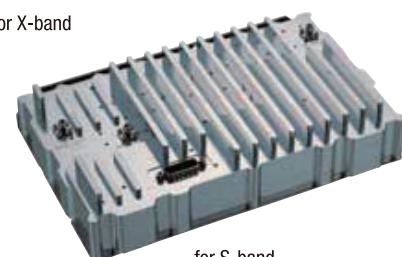
Solid State Radar model - NXT - specializes in target detection and maintainability

Compared to the traditional Magnetron Radar, the Solid State Radar NXT Series provide highly reliable target detection while requiring low power.

Power Amplifier Module of the Solid State transceiver



for X-band



for S-band

► Clear images

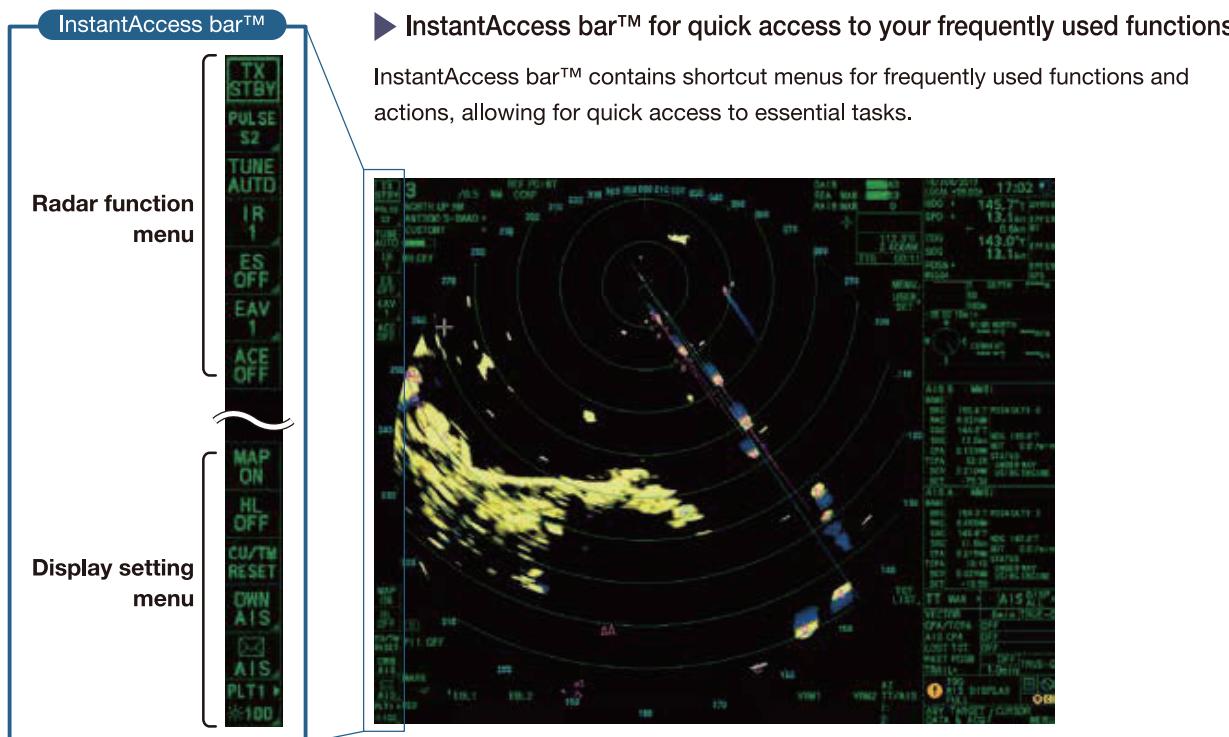
Furuno Solid State Radar technology generates clear echo images, which allows users to obtain a clear picture of the area around their vessel, including weaker echoes from small crafts.

► Reducing the time and cost for maintenance

- No need to replace the magnetron
- Removal of the consumable parts thanks to a fan-less antenna (S-band only)

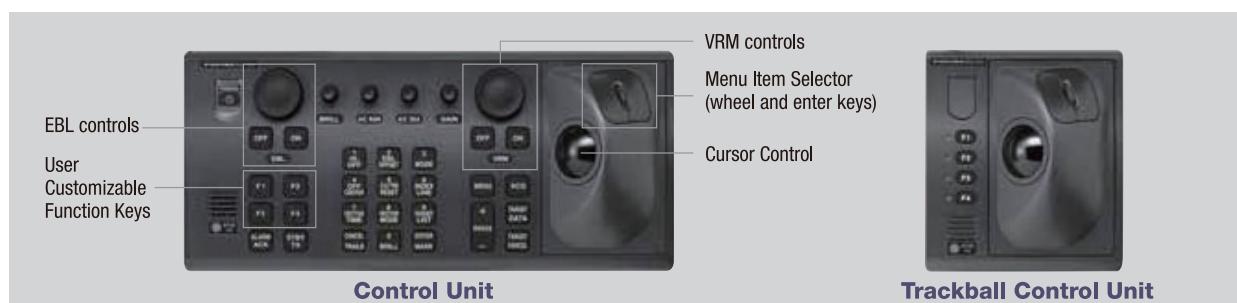


Exceptionally intuitive user interface



► Well-designed controllers for stress-free operation

Comfortable usability is very important on long voyages. With that in mind, these control units are designed based on ergonomics to comfortably accommodate the operator's hand. All operations can be controlled with the trackball.





Refined antenna with excellent reliability and easy maintenance



The FAR-22x8 series is designed to provide clearer and more accurate Radar images of the surroundings, while increasing reliability and decreasing overall cost of ownership with easy maintenance.

Signals are safely transported through the Ethernet network between the antenna and below deck processing unit, allowing for higher reliability. High quality images are obtained by the signal processor inside the antenna unit, directly converting analog to digital signals before sending them to the main processor unit.

The new antenna's refined shape significantly reduces aerodynamic drag and lightens the burden on the gear box. The gear box itself has also been redesigned. Decreased aerodynamic drag and a DC brushless motor result in a very durable gear box that can be used for prolonged period of time.

Installation and maintenance are now easier than ever. All components of the gear box are integrated into one block that can easily be removed from the gear box when maintenance is required. The cable to the gear box can be connected from the side of the gear box.

Easy installation for new building as well as retrofits, with high flexibility

- ▶ Existing monitor, control unit and cables can be used in retrofitting*.

*Only when retrofitting in lieu of FAR-2xx7 series

- ▶ Optional LAN Signal Converter enables Ethernet communication. Extension of the cable between antenna unit and processor unit utilizing existing cables when retrofitting is possible.

- ▶ Ethernet connectivity enables interface and information exchange.

Ethernet expands the Radar's capability with connection between either existing or newly installed system, such as ECDIS and VDR.

- ▶ With the optional Ethernet HUB, Inter-switch can be utilized.

- ▶ DVI-I cable is connectible to VDR in retrofitting.

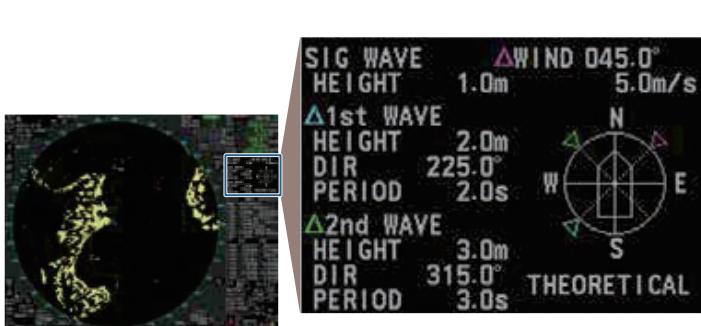
How to connect VDR with FAR-22x8 series

VR-7000/7000S	Directly connect VDR with LAN or convert the RGB signal from a DVI-I port using video LAN converter, and input to the VDR.
VR-3000/3000S	Directly input the RGB signal from a DVI-I port to the VDR.
Other manufacturer's VDR	Please check with the VDR manufacturer to connect appropriately.

Advanced technologies for safer and optimal navigation in all kinds of situations (option)

▶ Wave Analyzer Software *

- Allows real-time monitoring and analysis of wave echoes
- Ensures safety at sea even at night



*More details on the Wave Analyzer brochure

▶ Ice Mode ** (X-band magnetron only)

- Find the best route through ice
- Observe ice conditions by Radar



**Please contact your local distributor for more details

