

RADAR SCANNERS

Day and night, radar systems from Raymarine keep you aware of surrounding traffic, hazards, rain, sea birds, and much more. From compact and lightweight digital radomes, to ultra-high performance Super HD Color open arrays, Raymarine has the perfect radar solution for every boat.

Every Raymarine radar scanner features:

- Simple RayNet Ethernet networking to Raymarine LightHouse-powered multifunction displays
- Exclusive AutoGST™ controls for true hands-off operation. There's no need to manually adjust gain, sea clutter or tune, it's done for you automatically
- Powerful 4kW and 12kW transmitters offer superb long-range capability, yet still deliver outstanding short-range performance for navigation in dense fog or rain
- Radar overlay mode for live radar information right on your chartplotter display Easily correlate navigation aids, landmasses and buoys with chart objects*
- Standard MARPA target tracking and AIS integration to keep you informed of dangerous targets*
- Slew-to-cue target tracking with Raymarine T300/T400 Series thermal night vision camera systems

Radome or Open Array...Which is Right for Me?

Radome scanners

Radome antennas are the perfect blend of compact size, light weight and high performance. Choose a radome antenna when space is a premium or restricted by rigging. Radome scanners also consume less power than open array scanners which is essential for long-distance cruising sailboats.

Open Array scanners

The choice of mid to large-sized powerboats and sailing vessels, open array radar scanners deliver higher sensitivity, better target detection, and improved target separation. Open array systems are available with 4kW or 12kW transmitters for exceptional performance at all ranges.

* Radar overlay requires GPS position and interface to an electronic heading sensor or autopilot. AIS receiver sold separately.

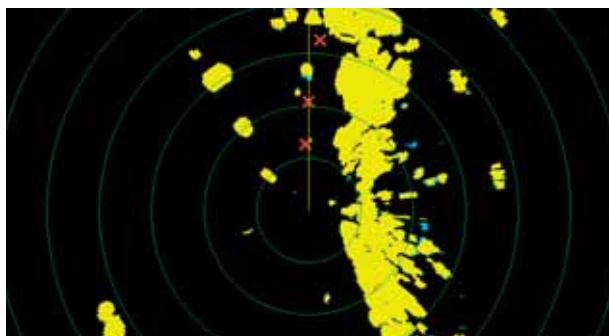


Digital Radar

- 18 and 24 inch radome options
- Basic radar for small vessels
- 4kW capability for improved performance
- Digital processing for increased target definition
- Reduced power consumption
- Trusted Raymarine radar performance and great value

256
COLOR HD+SHD

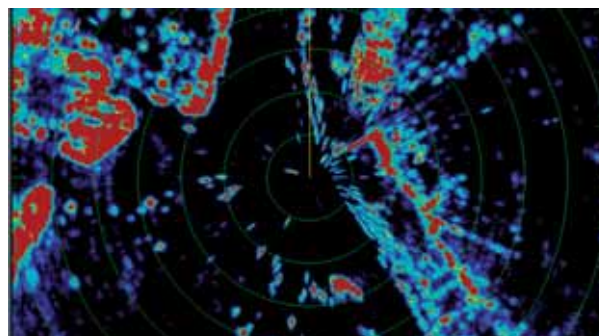
Digital Radar



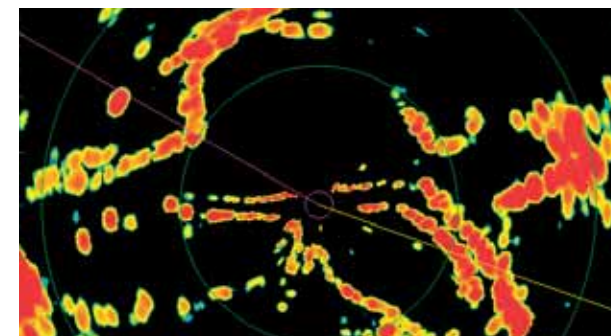
HD Color Radar – 256 Colours

- 18 and 24 inch 4kW radomes
- 48 and 72 inch open arrays with 4kW or 12kW power output
- Superior target detection and interpretation
- Identify target types, detect weak and distant contacts automatically, and virtually eliminate clutter and noise
- Adaptive transmitter and receiver automatically adjusts to changing environmental and sea conditions
- Dramatically clearer radar images
- Crisp, well-defined contact echoes
- Superior target separation and life-like target presentation

HD Digital Radar



Super HD Digital Radar



Super HD Color Radar – 256 Colours

- 48 and 72 inch open array options
- Choice of 4kW or 12kW power output
- Greater dynamic range than conventional radar
- Acquires and processes vast amounts of echo information normally lost by conventional analogue radar
- Intelligently isolates and identifies true radar targets and simultaneously eliminates unwanted clutter
- Extra-narrow beam width pinpoints targets with stunning clarity and gives dramatically clearer radar displays

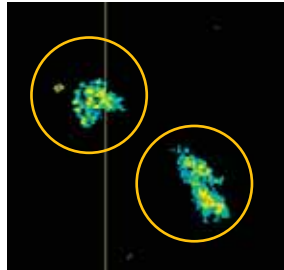


Installation

All radars work on line-of-sight principles so although antennas could theoretically be fitted almost anywhere, unobstructed and parallel to the water line is better.

Bird Mode

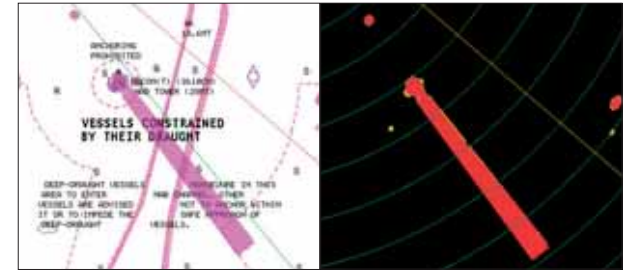
Bird Mode automatically tracks flocks of seabirds (circled right), giving fishermen the heads up on where the fish are.



Bird mode

RACON and SART

Raymarine radar antennas also trigger RACON beacons and home in on signals from Search And Rescue Transponders.



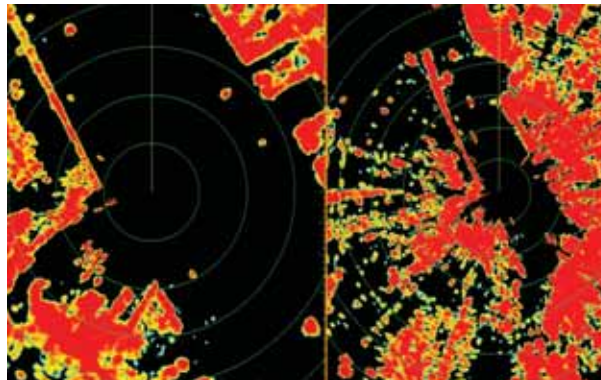
RACON and SART

256 colour resolution

Helps define the strength of target returns and highlights targets that could be hidden within clutter.

Dual Range Scanning

Simultaneously monitor near and far targets from a single radar antenna with dual-range scanning, found on the HD Color and Super HD Color radar systems.



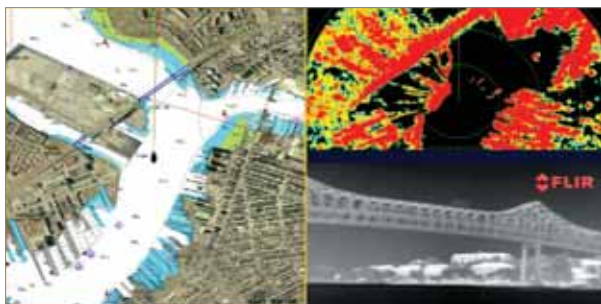
Dual Range

Interference resistance

Raymarine radars use interference rejection technology to resist signal interference from other vessels' transmissions as well as close proximity objects already fitted to the boat.

Safe emissions

Powerful enough to slice through atmospheric clutter, Raymarine radars still comfortably meet International limits for Radio Frequency emissions – in fact, the energy absorbed from an ordinary mobile phone can be several times greater than that from a correctly installed Raymarine radar.



Radar and Thermal Imaging

Radar and Thermal Imaging

Every Raymarine radar integrates with T-Series thermal night vision camera systems. Instantly identify radar contacts night or day.





Raymarine radomes and open array antennas work with...



Chart Overlay

Overlay radar on a chart to clearly identify targets (left half of the image). Note the superior target clarity and separation on the submarine barrier to the left of both screens.

Chart Screen

1. Submarine barrier
2. Heading and bearing
3. Radar overlay
4. Small fishing vessel
5. Cardinal mark
6. Vessel position
7. AIS transmitting vessels at anchor

Radar Screen

1. Corresponding clear return from submarine barrier
2. Heading and bearing
3. Corresponding radar return
4. Corresponding clear return from small fishing vessel
5. Corresponding clear return from cardinal mark
6. Vessel position
7. Corresponding AIS transmitting vessels at anchor
8. 0.5nm range rings showing 4.25nm to harbour

eSeries MFD (above) and aSeries touchscreen MFD (below) showing split-screen and full screen configurations



| | RADOME AND OPEN ARRAY FEATURES COMPARISON | | | | | | | | | | | |
|---|---|------|------------|------|-------------|----------|---------|----------|-------|-------|-------|-------|
| | Radomes | | | | Open Arrays | | | | | | | |
| | Digital | | HD Digital | | HD | SHD | HD | SHD | HD | SHD | | |
| Peak power output (kW) | 18" | | 24" | | 48" 4kW | 48" 12kW | 72" 4kW | 72" 12kW | | | | |
| Maximum range scale | 48 | | | | 72 | | | | | | | |
| Colours | 8 | | | | 256 | | | | | | | |
| Rotation rate | 24 | | 24/48 | | 24 | 24/48 | 24 | 24/48 | 24 | 24/48 | 24 | 24/48 |
| Horizontal beam width -3dB | 4.9° | 3.9° | 4.9° | 3.9° | 1.9° | <1°** | 1.9° | <1°** | 1.15° | <1°** | 1.15° | <1°** |
| Vertical beam width -3dB | 25° | | | | | | | | | | | |
| Near and far dual range mode | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Bird mode | | | ■ | ■ | | ■ | | ■ | | ■ | | ■ |
| Automatic harbour, coastal offshore and buoy modes*** | Yes | | | | | | | | | | | |
| 256 multi-level colour and selectable colour palettes | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| SeaTalk® networking | Yes | | | | | | | | | | | |
| Raymarine MFD compatibility | aSeries / cSeries / eSeries / gS Series | | | | | | | | | | | |

** Horizontal beam width on Super HD Color open arrays adjustable to less than 1°

*** Digital domes only provide Harbour, Coastal and Offshore auto modes for the Sea Clutter adjustment. All others provide presets for Buoy, Harbour, Coastal and Offshore.