

# SIMRAD®

## Simrad NSO evo2

The NSO evo2 marine processor forms the core of a distributed multifunction display system for integrated charting, sonar, radar, autopilot, AIS, digital instrumentation, and more. With dual HDMI video outputs and a high-performance quad-core processor, a single NSO evo2 unit is capable of driving two completely independent touchscreen or keypad-operated multifunction displays. Simrad touchscreen and non-touch 'pilothouse' monitors are available in 16, 19, and 24-inch sizes, to suit a variety of installations.

NSO evo2 processors may be installed at a single station, or networked together via standard Ethernet as part of a vessel-wide display system. Such distributed systems may include both NSO evo2 processors and NSS evo2 all-in-one multifunction displays, and share access to all connected resources including sonar, radar, and other Simrad performance modules.

### NON IMO-APPROVED

NSO evo2 processors are not IMO approved for use as a navigation or radar display system aboard SOLAS vessels. NSO evo2 systems are suitable for use as a navigation system aboard non-SOLAS vessels, and for use aboard any vessel in non-SOLAS applications such as fish-finding, bird-finding, or research.

### FLEXIBLE DISPLAY AND CONTROL OPTIONS

The NSO evo2 user interface has been optimised for widescreen monitors, and includes split-screen functionality for simultaneous display of multiple user-configurable panels. Combine chart and radar panels, echosounder and StructureScan®, or any other set of tools on one screen for a specific situation or task.

When combined with a Simrad multi-touch marine monitor, the NSO evo2 offers multi-touch gesture support with pinch-to-zoom for intuitive manipulation of charts and other on-screen features. The Simrad OP40 keypad controller provides an alternative suitable for use with wet or gloved hands, aboard high-speed RIBs and powerboats, and in any other conditions where boat motion may make it difficult to use a touchscreen accurately.

Ideal for pilothouse installations, the NSO evo2 processor also supports standard USB mouse, trackball, and keyboard control options – ideal for planning routes, organising waypoints, and other detail-oriented tasks.

Technical specifications overleaf.



### BRIDGE CONTROL

Easily manage multiple displays with Bridge Control. Link up to four displays as a 'bridge', then create pre-set views for activities such as docking, navigation, fishing, surveys, or searches. Bridge presets control what appears on each display, and allow a multi-display helm station to be set up for a specific purpose in one simple step.

Bridge Control extends to vessels with dual helms or multiple stations, with the ability to define up to four separate bridge stations each with its own displays and presets. Bridge Control works with any networked combination of Simrad NSO evo2 and NSS evo2 multifunction displays.

### AUTOPILOT INTEGRATION

Simrad autopilots and other compatible electronic steering systems can be operated via NSO evo2 multifunction displays, without a separate autopilot display or controls. On vessels with multiple stations, autopilot integration means full autopilot and steering control is available from any NSO evo2 or NSS evo2 display on board.



Beyond basic autopilot, integration offers course control with route navigation – lay down and navigate to waypoints with a touch or key-press, and easily backtrack to previous locations identified on a chart or echosounder history view – invaluable when fishing, surveying, or conducting searches.

### INTEGRATE AND EXPAND

Simrad NSO evo2 processors are designed to integrate with a wide range of Simrad performance modules such as GPS receivers and compasses, echosounders, StructureScan sonar imaging, 4G Broadband radar, Halo™ Pulse Compression radar, and AIS. This modular approach allows for simple and cost-effective expansion, upgrade, and service with all modules backed by Simrad Yachting’s knowledgeable field and factory support.

With Ethernet, NMEA0183 and NMEA2000 connectivity, NSO evo2 integration can be extended to third-party systems including digital switching solutions, FLIR™ infrared camera monitoring and control, engine monitoring, digital instrumentation and more.

### CARTOGRAPHY OPTIONS

With dual chart card slots and the ability to download charts and updates directly to an installed card with GoFree™ wireless, cartography options are immediately available to suit any region and application. The NSO evo2 supports a wide range of cartography including C-MAP MAX-N, Navionics, Insight, Insight Genesis, and NV Digital Charts.

Support for Navionics Autorouting and Jeppesen Easy Routing offers convenience for fishing and workboat navigators by automatically plotting route suggestions, appropriate to vessel draught and dimensions, for any selected destination. Note: Automatic routing features are unavailable in North America. Navionics Autorouting requires Navionics+ or Navionics Platinum charts; Jeppesen Easy Routing requires Jeppesen CMAP MAX-N+ charts.

### GOFREE™ WIRELESS UPDATES AND CHART PURCHASES

Available with the optional WiFi-1 module, GoFree™ wireless capabilities provide internet-connected functionality to every networked NSO evo2 display on board, anywhere a Wi-Fi internet connection is available. Reduce maintenance time with automatic software update notifications, and the option to wirelessly download updates directly to the relevant processors. Charts may also be purchased online, and downloaded directly to any GoFree™ connected NSO evo2 processor, via the GoFree™ Shop.

### GOFREE™ SMARTPHONE AND TABLET INTEGRATION

Extend Simrad multifunction display capabilities anywhere on board, with the ability to remotely view the screen of any GoFree™ connected NSO evo2 display from an Apple iPhone or Android smartphone, and to control many functions from an Apple iPad or Android tablet. Remote viewing and control functions require the optional WiFi-1 module; multiple modules may be necessary to provide complete Wi-Fi coverage aboard some vessels.

# Technical Specifications

▶ TECHNICAL/ENVIRONMENTAL	
Operating Temperature	-15°C to +55°C (5°F to 131°F)
Waterproof rating	IPX2
Product Width	281mm / 11"
Product Depth	232mm / 9.1"
Product Height	65.5mm / 2.6"
Product Weight	1kg
▶ POWER	
Power Supply	9-31.2V DC
Power Consumption	45W (max)
▶ CONNECTIVITY	
NMEA2000	1 port
NMEA0183 & RS422	2 ports
Video Input	2 ports – composite, NTSC & PAL, BNC socket
HDMI Video Output	2 ports – supports 800x600 (SVGA 4:3), 1024x768 (XGA 4:3), 1280x720 (HD 16:9), 1366x768 (WXGA), 1920x1080 (Full HD 16:9), 1920x1200 (WUXGA 16:10), 1280x800 (16x10), 1280x1024 (SXGA 5:4)
Network	3x Ethernet (2 ports with PoE)
Chart Card Slot	Full-size SD card slot
USB	2 ports
▶ OTHER	
Languages	31

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