SIMRAD®

R3016 Radar Control

The R3016 is a dedicated Radar Control Unit with integrated 16-inch widescreen display, compatible with a range of Simrad radar solutions including Halo™ Pulse Compression, Broadband 3G™/4G™, and HD Digital Radar.

Dedicated Radar Control Display

The R3016 was engineered to meet the need for a dedicated Radar Control Unit to serve in non-SOLAS applications aboard commercial vessels, bringing a professional-grade radar interface to the unapproved radar category. The R3016 is well suited to a variety of applications such as navigation, docking, anti-collision and anti-piracy – providing an always-visible, easy-to-operate radar display.

Type Approvals and Compliances

The R3016 meets IEC62252 (pending) small craft radar requirements when paired with one of the following radar scanners:

- Simrad HALO-3 Pulse Compression Radar
- Simrad HALO-4 Pulse Compression Radar
- Simrad HALO-6 Pulse Compression Radar
- Simrad 3G Broadband Radar
- Simrad 4G Broadband Radar
- Simrad TXL-10S-4 HD Digital Radar
- Simrad TXL-10S-6 HD Digital Radar
- Simrad TXL-25S-7 HD Digital Radar

16-inch Widescreen Radar Control Unit

Incorporating a 16-inch widescreen display, the R3016 is ideal for pilothouse installation. Its high-definition display provides a large and detailed PPI: excellent for docking, anti-piracy, and other radar applications where small on-screen details are crucial. The widescreen format offers ample display space for alarms, indicators and target tracking information, and allows settings to be modified via on-screen menus without obscuring any part of the main radar display.

Rugged Design with Flexible Mounting Options

The R3016 may be flush mounted, ideal for installation aboard new vessels. Alternatively, the included gimbal bracket is well suited to outside installations or pilothouse refits. With watertight rear connectors, the R3016 is IPX6 water-resistant from all sides, in either flush or bracket-mount installation.

Technical specifications overleaf.

Keypad Operation with Direct-Access Menu Keys

The R3016 is operated by an integrated keypad and rotary dial. Direct-access menu keys beside the display operate adjacent on-screen menu options, for quick and intuitive access to key settings and features. With reliable, long-life operation and clear tactile feedback, the R3016's large buttons are suitable for use in rough seas, while travelling at speed, and with wet or gloved hands.

Networking & Expansion

The R3016 Radar Control Unit connects to compatible Simrad radar systems via Ethernet, offering simple installation and easy networking of multiple control units and radar systems. The R3016 also provides four NMEA 0183® ports and NMEA 2000® connectivity for compatible devices such as heading and speed sensors, AIS, and GPS.

HDMI Output for Display Mirroring/Clone Station

An HDMI output gives the option of a secondary monitor mirroring the R3016's primary display. This may be used to add a second non-interactive radar display at another station, or combined with the optional Simrad O2000 Controller to create a remotely operated, fully functional clone station ideal for dual-helm vessels. The R3016 is compatible with Simrad MO-series marine monitors, and other standard HDMI-capable displays.

Main Features:

- Dedicated Radar Control Unit
- Compatible with Simrad Halo™ Pulse Compression, Broadband 3G™/4G™, and HD Digital Radar systems
- Computer controlled auto tuning system
- Sensitivity anti-sea clutter time control to allow an optimum picture under adverse weather conditions
- Consistent automatic target tracking
- Meets IEC 62252 (pending) when paired with specified Simrad radar systems
- 16-inch 1366x768-pixel widescreen LCD
- HDMI output for an optional secondary display or remotely-operated 'clone' station
- Keypad and rotary-dial interface with 8 direct-access menu keys
- Bracket and flush-mount installation options
- Full-sized SD card slot for logs and software updates
- Ethernet, NMEA0183 & NMEA2000 connectivity

Technical Specifications

▶ OVERVIEW	
Display Size	16-inch widescreen
Screen Brightness	300 cd/m²
Networking Capability	4x NMEA0183, 1x NMEA2000, 1x Ethernet
Video Integration	1x HDMI output (Supported resolutions: 1366x768)

▶ DISPLAY	
Display Resolution [pixels & pixels]	1366 x 768
Display Type	16-inch LED-backlit Colour TFT LCD

▶ TECHNICAL/ENVIRONMENTAL	
Operating Temperature	-15°C to +55°C / 5°F to 131°F
Waterproof Standard/Rating	IPX6
Specified Standards	CE, RTCM SC112 Radar for non-IMO vessels, IEC62252 European small craft radar Class A
Product Width	455.5 mm / 17.93 in
Product Depth	82.3 mm / 3.24 in
Product Height	260.1 mm / 10.24 in
Product Weight	4 kg / 8.8 lb

▶ POWER	
Power Supply (Supply Voltage)	12-24 V DC
Power Consumption	20 W

▶ OTHER	
Languages	

Built-in: US English, UK English, French, Spanish, Portuguese , Portuguese (Brazil), Italian, Dutch, German, Swedish, Finnish, Norwegian/Danish , Icelandic, Russian, Ukaranian, Slovakian, Croatian, Hungarian, Bulgarian, Greek, Polish, Estonian, Czech, Afrikaans, Farsi, Arabic, Urdi (Pakistan), Indian Dialects (Hindi), Sri Lankan, Turkish, Malay , Simplified Chinese , Traditional Chinese , Japanese , Korean, Thai, Vietnamese , Gujarati, Tamil, Indonesian
Supported via Language Packs: Farsi, Arabic, Urdi (Pakistan), Indian Dialects (Hindi), Sri Lankan, Turkish, Malay , Simplified Chinese , Traditional Chinese , Japanese , Korean, Thai, Vietnamese , Gujarati, Tamil

Please Note: Specifications are subject to change.

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