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Simrad HALO20+ / 000-14489-001

Simrad HALO20+ Radar and Lowrance Active Imaging 3-in-1 Transducer User Manual

Model: HALO20+ / 000-14489-001

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Simrad HALO20+ 36 NM 20-inch Pulse Compression Radar and Lowrance Active Imaging 3-in-1 Transducer. This integrated system offers advanced marine navigation and fish-finding capabilities, enhancing safety and efficiency on the water. The HALO20+ radar delivers near real-time views with its 60 RPM operation at close range, crucial for collision avoidance. It features VelocityTrack Doppler technology for instant hazard identification and provides simultaneous short and long-range coverage up to 36 nautical miles. The Lowrance Active Imaging 3-in-1 Transducer complements this with CHIRP, SideScan, and DownScan Sonar for detailed underwater imaging.

2. Key Features

- **HALO20+ Radar:** Industry-leading 60 RPM operation at close range for superior collision avoidance.
- **VelocityTrack Doppler Technology:** Instantly identifies approaching or receding targets.
- **Simultaneous Dual Range:** Provides both short and long-range radar views concurrently, up to 36 nautical miles.
- **Advanced Pulse Compression Technology:** Enhanced target separation and clarity with beam sharpening.
- **Low Profile Dome:** Lightweight and compact 20-inch dome antenna.
- **Lowrance Active Imaging 3-in-1 Transducer:** Integrates CHIRP, SideScan, and DownScan Sonar for comprehensive underwater imaging.
- **Easy Installation:** Designed for straightforward setup with minimal cabling.

3. What's in the Box

Your Simrad HALO20+ Radar and Lowrance Active Imaging 3-in-1 Transducer package includes the following components:



Simrad HALO20+ Radar Dome

The main radar unit, a 20-inch pulse compression radar dome, designed for optimal performance and durability in marine environments. It features a low-profile design.



Lowrance Active Imaging 3-in-1 Transducer

A versatile transducer providing CHIRP, SideScan, and DownScan sonar capabilities for detailed underwater views.



Scanner Cable (10 m / 33 ft)

A 10-meter (33-foot) cable for connecting the radar dome to your marine electronics system.



Ethernet Adapter Cable (1.5 m / 4.9 ft) with RJ45 to 5 Pin Male and Waterproof Boot

An adapter cable for Ethernet connectivity, ensuring secure and waterproof connections.

4. Setup and Installation

The Simrad HALO20+ radar system is designed for a single-cable installation, simplifying the setup process. For detailed instructions, refer to the full installation guide provided with your product.

4.1 Mounting the Radar Dome

1. Choose a suitable location on your vessel, ensuring an unobstructed view for the radar.
2. Securely mount the HALO20+ radar dome using appropriate marine-grade fasteners.
3. Ensure the mounting surface is flat and stable to prevent vibration.

4.2 Transducer Installation

1. Install the Lowrance Active Imaging 3-in-1 Transducer in a location that provides clear water flow and minimal interference.
2. Common installation points include the transom or through-hull, depending on your vessel type.

4.3 Cabling and Connections

1. Connect the scanner cable from the radar dome to your compatible multifunction display (MFD) or network hub.
2. Use the provided Ethernet adapter cable for network integration.
3. Connect the transducer cable to the appropriate sonar port on your MFD or sonar module.
4. Ensure all connections are secure and waterproof using the provided boots and seals.
5. Power the system via a 12V vehicle power socket.

5. Operating Instructions

The Simrad HALO20+ system offers intuitive operation through your compatible marine display. Familiarize yourself with your MFD's interface for optimal use.

5.1 Radar Operation

- **Power On:** Turn on your MFD and select the radar application. The HALO20+ will initiate its startup sequence.
- **Range Selection:** Adjust the radar range to suit your navigation needs. The 60 RPM operation provides excellent close-range detail for collision avoidance.
- **Dual Range Mode:** Utilize the simultaneous dual range feature to monitor both nearby and distant targets (up to 36 NM) on a single screen.
- **VelocityTrack:** This Doppler technology highlights moving targets in different colors (e.g., red for approaching, green for receding), allowing for quick identification of potential collision risks.
- **Target Tracking:** The radar can track the velocity of objects, providing critical information for safe navigation.
- **Weather Monitoring:** Observe weather patterns, including rain and storm cells, to anticipate changing conditions.
- **Advanced Signal Processing:** The system's advanced processing ensures vivid and clear target visibility, even in challenging conditions.

5.2 Sonar Operation (with 3-in-1 Transducer)

- **CHIRP Sonar:** Provides traditional sonar views with excellent target separation for fish and structure.
- **SideScan Sonar:** Offers wide, high-resolution views of structure and fish to the sides of your boat, useful for scouting large areas.
- **DownScan Sonar:** Delivers picture-like images of structure and fish directly below your boat, ideal for identifying bottom composition and submerged objects.
- **Marine Life Detection:** The sonar capabilities allow you to spot marine life such as dolphins or large fish, aiding in fishing and wildlife observation.

Example of Simrad Radar in use on a boat:



A marine vessel equipped with the Simrad HALO20+ radar system, demonstrating its integration into a boat's navigation setup.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Simrad HALO20+ system.

- **Cleaning:** Periodically clean the radar dome and transducer with fresh water and a soft cloth to remove salt, dirt, and marine growth. Avoid abrasive cleaners.
- **Cable Inspection:** Regularly inspect all cables and connections for signs of wear, corrosion, or damage. Ensure waterproof seals are intact.
- **Software Updates:** Check the Simrad website for the latest software updates for your HALO20+ radar and Lowrance transducer to ensure you have the most current features and performance enhancements.
- **Transducer Face:** Keep the transducer face clean and free of marine growth to maintain accurate sonar readings.

7. Troubleshooting

If you encounter issues with your Simrad HALO20+ system, refer to the following common troubleshooting tips. For more complex problems, consult the full product manual or contact Simrad support.

Problem	Possible Cause	Solution
No Radar Display	Power issue, loose cable, MFD setting.	Check power connections, ensure cables are securely plugged in, verify radar is enabled on MFD.
Poor Radar Image Quality	Dome obstruction, interference, incorrect settings.	Clear any obstructions from the dome, check for sources of electrical interference, adjust gain/clutter settings.
No Sonar Readings	Transducer not connected, dirty transducer face, incorrect sonar source selected.	Verify transducer connection, clean transducer face, select correct sonar source on MFD.
Inaccurate VelocityTrack	Vessel speed input incorrect, radar calibration needed.	Ensure accurate speed data is being fed to the system, perform radar calibration if necessary.

8. Specifications

Feature	Detail
Brand	Simrad
Model	HALO20+
Radar Type	Pulse Compression Radar
Antenna Size	20-inch Dome
Max Range	36 Nautical Miles
Rotation Speed	Up to 60 RPM (at ranges up to 1.5 NM)
Sonar Transducer	Lowrance Active Imaging 3-in-1 (CHIRP, SideScan, DownScan)
Power Source	Vehicle Power Socket (12V)
Product Dimensions	8"L x 8"W x 4"H (Radar Dome)
ASIN	B0CYHKXS8Q
Date First Available	March 19, 2024

9. Warranty and Support

Simrad products are built to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Simrad website.
For technical support, troubleshooting assistance, or service inquiries, please contact Simrad Customer Support through their official website or authorized service centers. Keep your product model and serial number ready when contacting support.
You can find more information and support resources at theSimrad Store on Amazon.

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