

**LOWRANCE**

**SpotlightScan™**

Operation Manual

ENGLISH





# Preface

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As Navico is continuously improving this product, we retain the right to make changes to the product at any time which may not be reflected in this version of the manual. Please contact your nearest distributor if you require any further assistance.

It is the owner's sole responsibility to install and use the instrument and transducers in a manner that will not cause accidents, personal injury or property damage. The user of this product is solely responsible for observing safe boating practices.

NAVICO HOLDING AS AND ITS SUBSIDIARIES, BRANCHES AND AFFILIATES DISCLAIM ALL LIABILITY FOR ANY USE OF THIS PRODUCT IN A WAY THAT MAY CAUSE ACCIDENTS, DAMAGE OR THAT MAY VIOLATE THE LAW.

**Governing Language:** This statement, any instruction manuals, user guides and other information relating to the product (Documentation) may be translated to, or has been translated from, another language (Translation). In the event of any conflict between any Translation of the Documentation, the English language version of the Documentation will be the official version of the Documentation. This manual represents the product as at the time of printing. Navico Holding AS and its subsidiaries, branches and affiliates reserve the right to make changes to specifications without notice.

## Copyright

Copyright © 2014 Navico Holding AS.

## Warranty

The warranty card is supplied as a separate document.

In case of any queries, refer to the brand web site of your display or system: [www.simrad-yachting.com](http://www.simrad-yachting.com), [www.lowrance.com](http://www.lowrance.com)

## Regulatory Statements

The Spotlight complies with the following regulations:

- CE under EMC directive 2004/108/EC
- Level 2 devices of the Radio communications (Electromagnetic
- Compatibility) standard 2008

The relevant Declaration of Conformity is available in the following websites under model documentation section:  
[www.lowrance.com](http://www.lowrance.com).

## About this manual

The manual does not cover basic background information about how the heading sensor works. Such information is available from our web site:

<http://www.lowrance.com/Support/Library/>

Important text that requires special attention from the reader is emphasized as follows:

- **Note:** Used to draw the reader's attention to a comment or some important information.



**Warning:** Used when it is necessary to warn personnel that they should proceed carefully to prevent risk of injury and/or damage to equipment/personnel.

## Trademarks

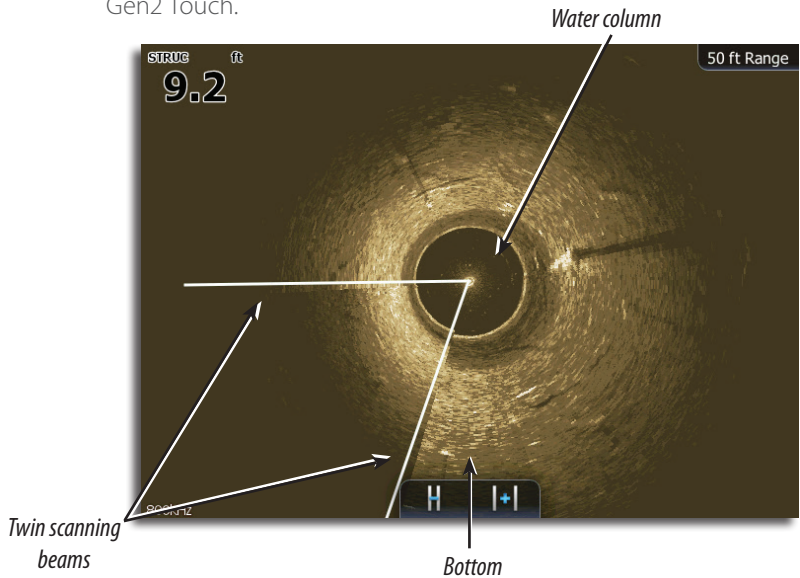
- 'Navico', 'Lowrance', and 'SpotlightScan' are trademarks of Navico, registered in the US and other countries.
- 'MotorGuide' is a registered trademark of Brunswick Corporation.
- 'Minn Kota' is a registered trademark of Johnson Outdoors Marine Electronics, Inc.

## SpotlightScan™ operation

SpotlightScan Sonar shows structure and fish targets ahead and around the boat without disturbing these areas before you have a chance to fish them.

The SpotlightScan transducer can be used for SpotlightScan imaging, Downscan imaging or as a conventional broadband transducer.

- **Note:** Screen captures shown in this manual were taken on a HDS Gen2 Touch.



SpotlightScan comes with a trolling motor position sensor that ensures SpotlightScan returns match up correctly with the orientation of your boat.

The SpotlightScan transducer can be used with any MotorGuide or Minn Kota cable-steer trolling motor. Its scanning speed is controlled by the amount of pressure placed on the trolling motor foot pedal.

- **Note:** Rotate the trolling motor at a slow, constant speed to achieve the best results.
- **Note:** Experienced trolling motor users will achieve better results with the SpotlightScan system.

## Non-touch HDS Gen2 units

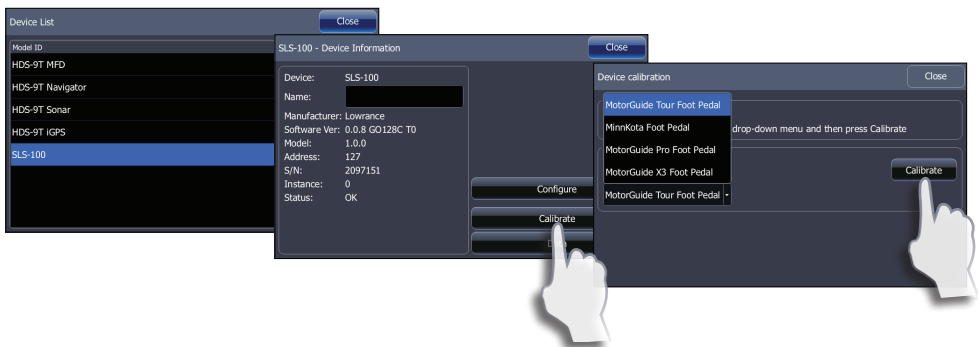
The SpotlightScan system does not connect directly to HDS Gen2 non-touch units. To use SpotlightScan imaging with a non-touch unit, network the unit to a SonarHub or to a HDS Gen2 Touch unit and select the SonarHub or HDS Gen2 Touch as your sonar source. Refer to your operation manual for instructions on selecting a sonar source.

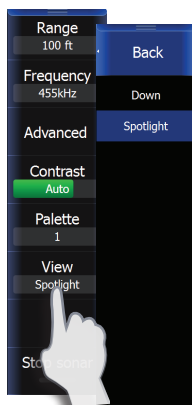
## SpotlightScan setup

### Selecting trolling motor type

The position sensor must be calibrated with your trolling motor.

1. Access the Network menu
2. Select **Device list**
3. Select the position sensor (**SLS-100**) from the device list
4. Select **Calibrate** on the device information dialog
5. Select your trolling motor type
6. Select **Calibrate**
7. Select **OK** on the confirmation dialog



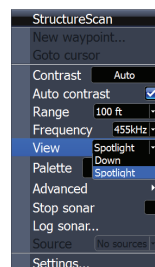


*HDS Gen2 Touch*

## Displaying SpotlightScan view

SpotlightScan images are viewed on the Structure page. You can set up combo pages to view SpotlightScan images and broadband sonar and/or Downscan imaging at the same time. You will not be able to view SpotlightScan and SideScan at the same time.

1. Access the Structure page
2. Select **View**
3. Select **Spotlight**

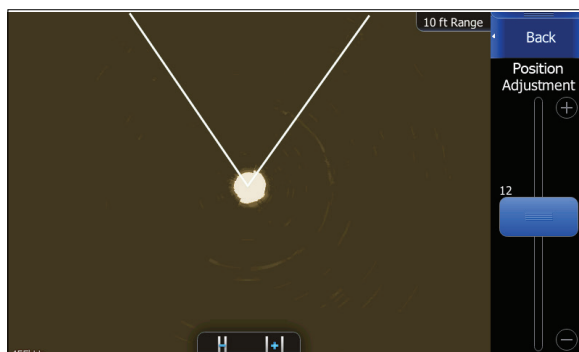


*HDS Gen2*

## SpotlightScan image alignment

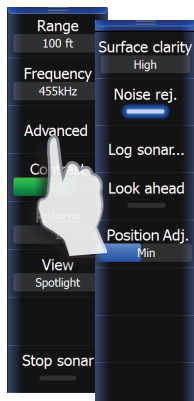
You must align the SpotlightScan transducer image with the direction the trolling motor is pointing.

If the SpotlightScan image is not correctly aligned with the trolling motor, the orientation of the image will not match the underwater environment around your boat.



*SpotlightScan "V" positioned at the top of the display.*

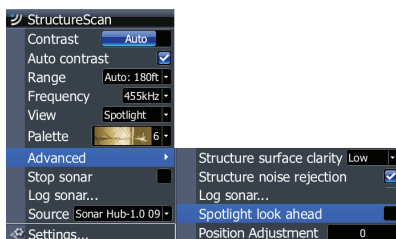
1. Position your trolling motor so it is pointing straight ahead
  2. Access the **Advanced** menu
  3. Select **Position adjustment**
  4. Move the Position adjustment scroll bar so the top of the "V" is centered at the top of the display.
- **Note:** The "V" on the Structure display represents the beams of the SpotlightScan transducer. The wide end of the "V" should be aligned in the direction the trolling motor is pointing.
- **Note:** Do not use the arrow indicator on the trolling motor head as a heading reference as it may not be aligned correctly with the trolling motor.



*HDS Gen2 Touch*

## Advanced menu

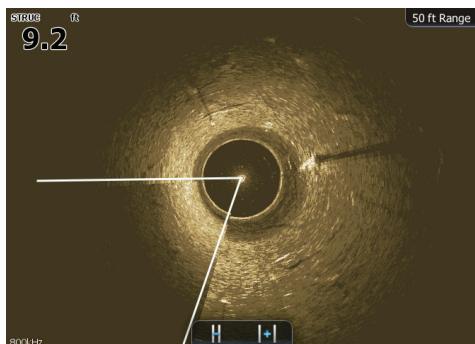
Access the Advanced menu to select Look Ahead mode and make adjustments to SpotlightScan image alignment.



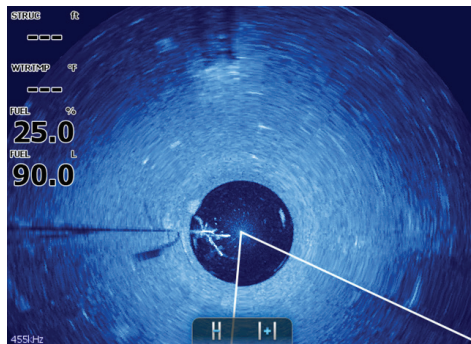
*HDS Gen2*

## Look Ahead

Enlarges the SpotlightScan image and makes the top half of the image predominant on the display.



*SpotlightScan*



*SpotlightScan in Look Ahead mode*

## Range

You can control how much of the area around your boat appears on the display by increasing or decreasing the range.

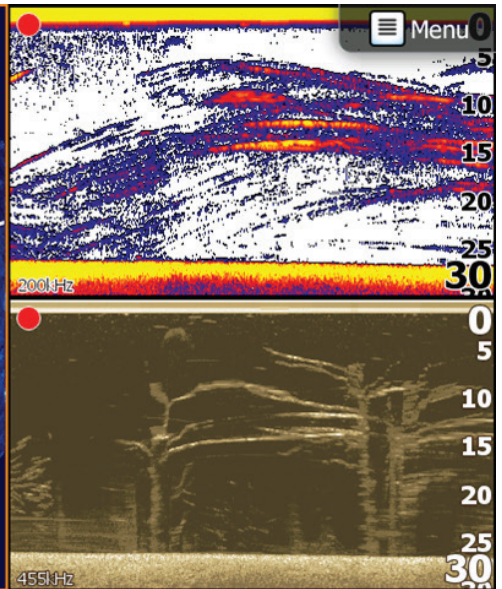
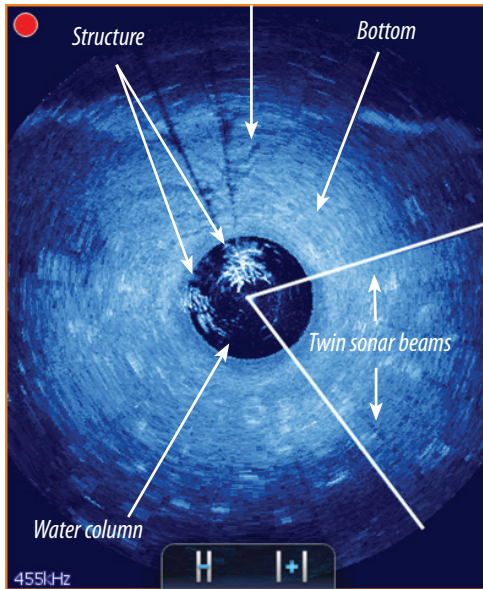
## Frequency

SpotlightScan can be used at 800kHz or 455 kHz. 800kHz provides the highest resolution with less range. 455kHz has the best range, but with lower resolution.

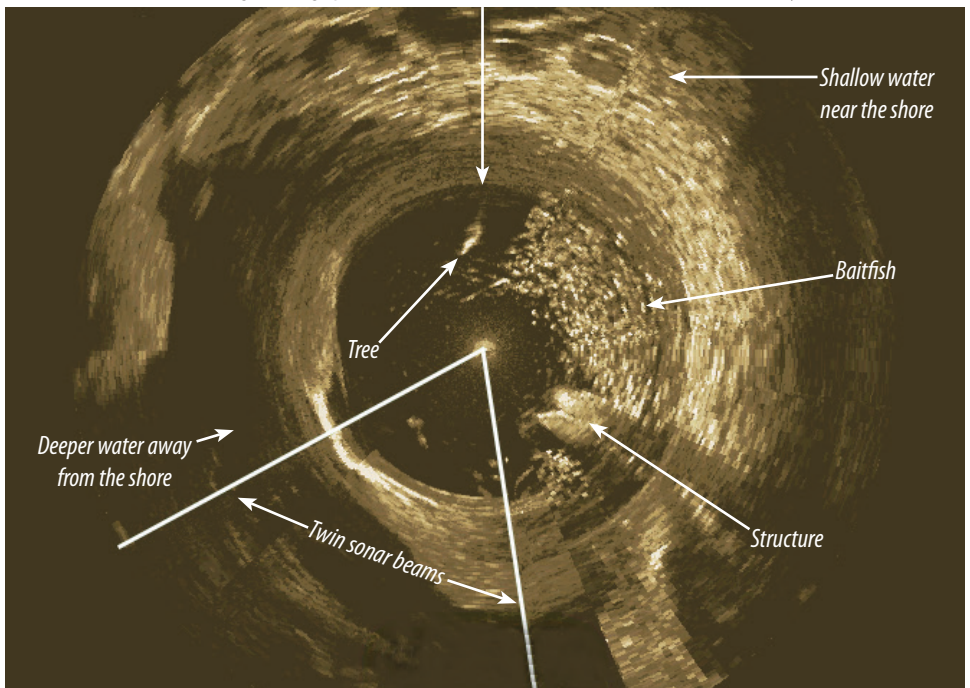
## SpotlightScan operation tips

- Remove slack in the trolling motor cable to prevent image distortion.
- Rotate the trolling motor at a slow, constant speed to achieve the best results.
- Reducing the range will increase the size of the water column, providing the best view of fish activity beneath the boat.
- For more information on operating the SpotlightScan system view SpotlightScan videos at <http://www.lowrance.com/en-US/Support/Video-Library/>.

Increasing the range provides a better view of structure



Decreasing the range provides a better view of the water column and fish activity







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