

SonarHub guide

SonarHub

You can use the SonarHub to view data from CHIRP, single frequency and StructureScan HD transducers.

- **Note:** When a CHIRP transducer is in use, you will not be able to view returns from single frequency sonar or StructureScan HD. You can view CHIRP and StructureScan HD at the same time by using two SonarHubs or by connecting your StructureScan HD transducer directly to your HDS Gen2 Touch display unit or to the LSS-1 or LSS-2 attached to your HDS Gen2 display unit.

CHIRP

A CHIRP (Compressed High Intensity Radar Pulse) transducer sends out an elongated pulse that broadcasts all frequencies within the bandwidth of the selected transducer type (Low CHIRP, Medium CHIRP, High CHIRP). This results in greater depth penetration, better target separation and enhanced image quality.

- **Note:** Your CHIRP transducer will only support one of the frequencies listed below (Low, Medium or High).

CHIRP frequencies	
Low CHIRP	Provides the best depth penetration with lower resolution images
Medium CHIRP	Better depth penetration than High CHIRP, but with minimal loss of target definition
High CHIRP	Offers high resolution images in shallow water

Single frequency transducers

Provides a traditional sonar view of the area under and around your boat, allowing you to detect fish and examine bottom structure.

Single sonar frequencies	
50kHz	Lower resolution; best performance in deep water
83kHz	Wider cone angle provides greater water coverage
200kHz	High resolution; highest sensitivity and better target separation in shallow water

StructureScan HD transducers

StructureScan HD uses high frequencies to provide a high-resolution, picture-like image of the bottom.

StructureScan Frequencies	
455kHz	Excellent resolution and greater range than 800kHz
800kHz	Better definition than 455kHz at shallower depths

Selecting a frequency

You can view CHIRP, single frequency sonar or StructureScan sonar data by selecting the desired frequency from the transducer type dropdown menu.

Refer to your unit's operation manual for instructions on selecting a transducer type.

Updating software

To take advantage of SonarHub features, you may need to update the software on your display unit.

For Lowrance:

<http://www.lowrance.com/en-US/Software-Updates/>

For Simrad:

<http://www.simrad-yachting.com/en-US/Support/Downloads/>

Compliance Statements

The SonarHub comply 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.simrad-yachting.com, www.lowrance.com

SonarHub Specifications

General	
Description	High Performance, Broadband CHIRP sonar with single-frequency and StructureScan HD sonar
Max depth	(914 m) 3000 ft
Transducers	Standard Narrowband & High Performance Broadband
Frequencies	50 kHz/83kHz/200kHz Enhanced 455 kHz and 800 kHz High CHIRP, Medium CHIRP, Low CHIRP
Transmit power	WRMS: 500W
Environmental	
Operating temperature	-25°C to +60°C (-13°F - 140°F)
Storage temperature	-30°C to +70°C (-22°F - 158°F)
Waterproof	IPX7
Electrical	
Power supply	12V/24V DC
Operating voltage	10.5V-31.2V DC
Fuse	External: 3A automotive fuse
Reverse polarity protection	Yes
Current drain @13.8V	Max: 0.8 A; Typical: 0.60 A; Inrush: 3A pk; >2.5A for < 0.5ms
Mechanical	
Material	Plastic
Weight	.65 kg (1.5 lbs)
Product dimensions	Width: 203.8 mm (8") including base Length: 180 mm (7") plus connectors Height: 57 mm (2.2")
Network	3 Ethernet ports

