

CHIRP RAGIS SERIES

KNUDSEN



YSTEM





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ISO9001:2008 REGISTERED



CHIRP RACK SERIES

Knudsen CHIRP Systems are the next benchmark in scientific sub-bottom profiling echosounders. The CHIRP Rack system, a blackbox system which interfaces to your computer via a USB connection, incorporates the latest in digital signal processing technology and includes Knudsen SounderSuite Windows application software and chirp and correlation processing algorithms to enhance sub-bottom capability. The unit, housed in a 3U rackmount case, is ideal for quick installation to a standard equipment rack on your survey platform.

Available in a 2 or 4 channel configuration, the versatile system is particularly well suited to multiple survey roles and includes a wide range of standard bathymetry and sidescan frequencies for both shallow and deeper depths.

Technical Specifications: (subject to change without notice):

Available Channels

Chirp 3200: 1 channelChirp 3202: 2 channels

Chirp 3204: up to 4 channels

Frequency

All channels: 3.5kHz - 210kHz

Output Power

Up to 2kW on Channels 1 and 2
 Up to 1kW on Channels 3 and 4

Input Power

85 - 265 VAC (DC Optional)

Pulse Length

Up to 64ms

Gain

Manual, automatic (AGC), and time varied (TVG)
 96db range of programmable analog gain

Ranges

5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000

Phasing

Manual and automatic (up to 50% overlaps)

Units

Meters, Feet, or Fathoms

Resolution

1cm (0-99.99), 1dm (100-999.9), 1m (>1000)
 1/100ft (0-99.99), 1/10ft (100-999.9), 1ft (>1000)

1/100fm(0-99.99), 1/10fm(100-999.9), 1fm(>1000)

Sound Velocity

1300 - 1800 m/s Resolution 1m/s
 4265 - 5906 ft/s Resolution 1ft/s
 710 - 984 fm/s Resolution 1 fm/s

Draft

0-100m Resolution 1cm
 0-328ft Resolution 0.01ft
 0-54fm Resolution 0.01fm

Interface

USB 2.0 Full Speed (12Mbps)

Output Data

 Full resolution envelope data in KEB binary format and XTF (for sidescan only)

Industry standard SEG-Y in 16-bit fixed point in user selected raw, filtered, or envelope detected form
 User configurable ASCII digital depth strings

Dimensions

533mm (21") x 483mm(19") x 133mm (5.25")

Weight

Chirp 3200: 11kg (24lbs)
 Chirp 3202: 12kg (26lbs)
 Chirp 3204: 14kg (30lbs)

Installation

3U Rackmount case

Operating Temperature

0 - 50°C

Additional Features

Frequency agility on all channels
Chirp and correlation processing

Transmit signal generation control

Advanced digital filter control

Built-in drivers for all popular GPS

Built-in test signal generator

 Compatible with industry standard dataloggers and processing software (Hypack, QINSy, SonarWiz)

Heave compensated echogram

Options

Sidescan option

Network option for multiple PC operation

Remote Display Indicators

EchoSim Sonar Signal Simulator

SounderSuite Software (included)

Compatible with Windows Vista or higher Easy to use Graphical User Interface (GUI)

Postsurvey Display and Printing Software

Large Digitized Depth Display

Print to standard Windows printers and select

thermal printers

