

Chirp 3260 Hardware Installation Manual

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Revision History

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1.00	June 24, 2009	Initial Release	Darren Gibson



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1 INTRODUCTION

The Chirp 3260 Echosounder is a high output power echosounder that can be used for full ocean depth surveys and sub-bottom profiling. The standard configuration is dual channel (3.5kHz, 50ohm, 10kW and 12kHz, 200ohm, 2kW). This manual provides all information necessary for installation of the echosounder.

1.1 Deliverables

The following is a list of standard deliverables for a Chirp 3260 Echosounder. Any custom placed orders such as transducers, extension cables, junction boxes, or additional software will be listed separately on the packing slip.

- Chirp 3260 Echosounder
- AC Power Cable
- USB Cable
- SounderSuite Software CD-ROM
- Manuals

1.2 Contact Information

If there is any problems with the contents of the Chirp 3260 delivery please contact:

In Canada and International
Knudsen Engineering Limited
10 Industrial Road
Perth, Ontario, Canada
K7H 3P2
(613) 267-1165
sales@knudsenengineering.com

In the U.S.
Knudsen Systems Inc
812 Proctor Avenue
Ogdensburg, NY
13669
(315) 393-8861
judith@knudsensystems.com

1.3 Warranty Statement

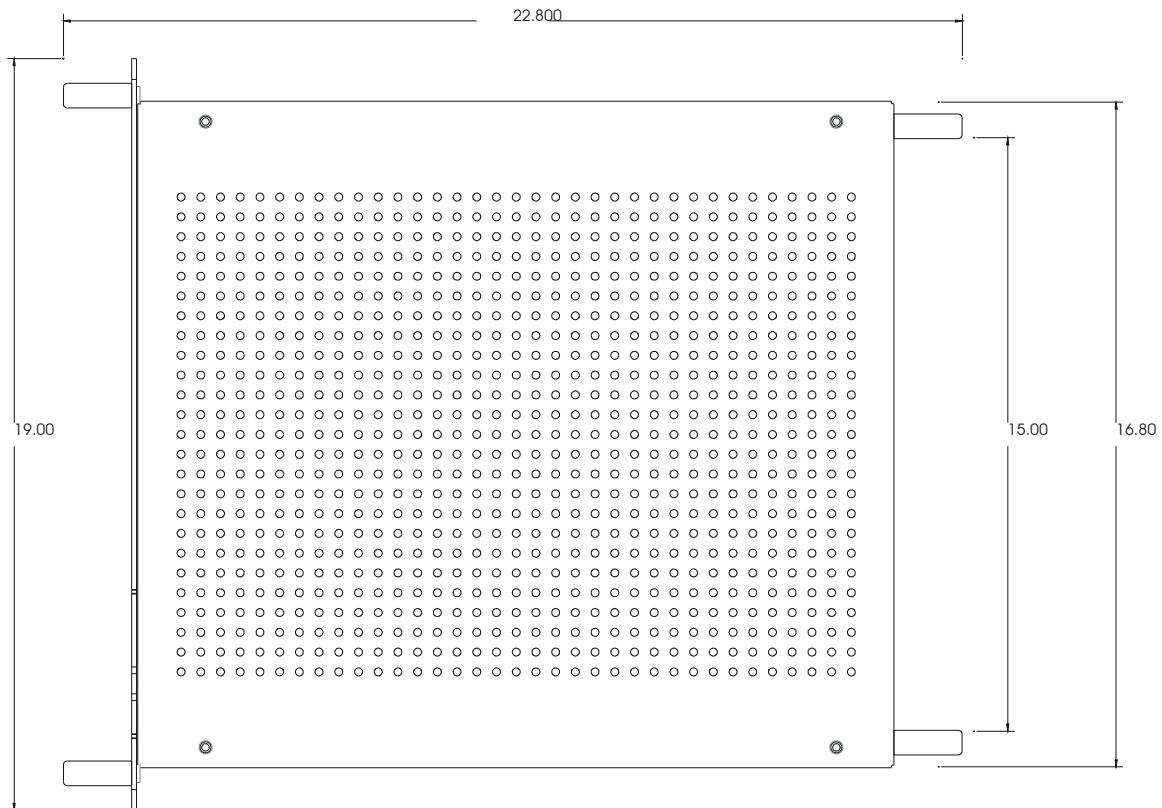
All Knudsen Engineering Limited equipment is guaranteed under warranty against defects in materials or workmanship for one year from date of purchase under normal operation. Products that are found to be defective when returned to Knudsen Engineering Limited within the warranty period will, at KEL's option, be repaired or replaced. Warranty covers parts, labour, and return shipping to customer. Warranty does not cover repair, maintenance or adjustment to equipment for reasons of accident, abuse, neglect, misuse, improper environment, or faulty installation.

2 INSTALLATION

This section provides installation information for the Chirp 3260 Echosounder.

2.1 Weight and Dimensions

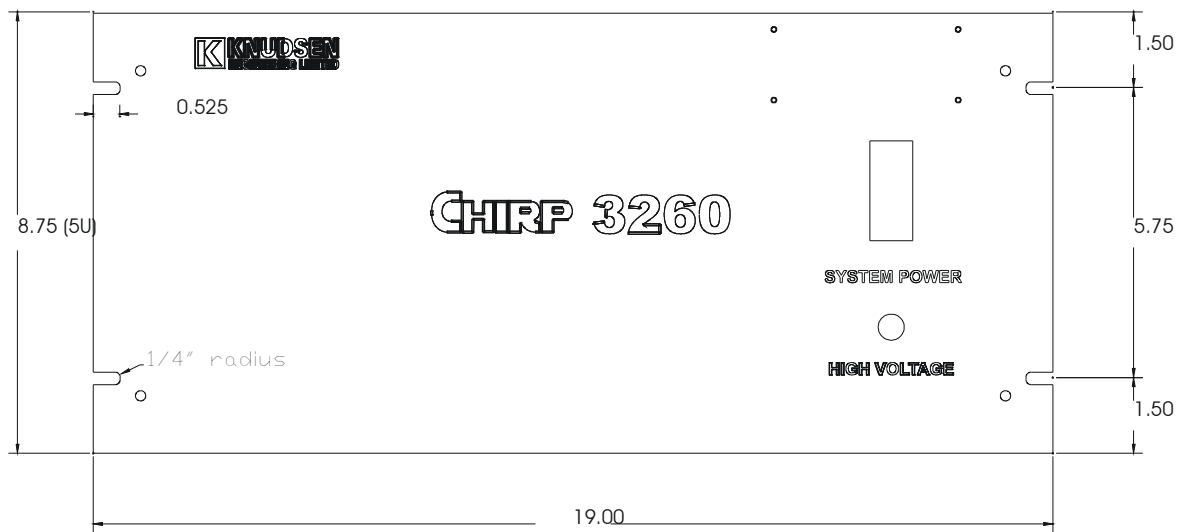
The Chirp 3260 is housed in a nineteen inch, 5U rackmount case. The weight of the system is 25kg and the external dimensions are shown in the image below. The system has been designed with handles on the front and rear to ease with lifting and installation.



Top View of Chirp 3260 - All dimensions are in inches

2.2 System Installation

The Chirp 3260 can be fastened into a rack case by means of the mounting holes on the front panel. Locations of these mounting holes are shown in the image below. Due to the weight of the system it is also recommended that sliding rails or support rails be used as part of the installation.



Front View of Chirp 3260 - All dimensions are in inches

2.4 Connector Panel Overview

The connector panel of the Chirp 3260 is located on the rear of the system. Below is a breakdown of the individual connections.

2.4.1 Transducer Connection

The Transducer connection transfers the high voltage transmit output signal to the transducer as well as the return echo to the echosounder. **CAUTION:** Make sure that the Chirp 3260 is not transmitting while connecting or disconnecting the transducer(s) to the Transducer connector.

2.4.2 Int / Ext Switch

The Internal (Int) or External (Ext) switch will toggle whether the receive signal is obtained from the Chirp 3260 or from an external source.

2.4.3 Ext In BNC

If the Chirp 3260 Int/Ext Switch is in Ext (External) mode than the external signal should be connected to this BNC.

2.4.4 Aux BNC's

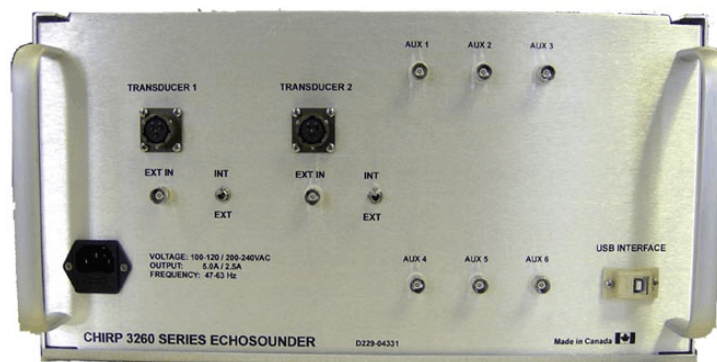
The Aux BNC are used for Analog Outputs, Sync In and Sync Out signals. A breakdown of each wiring is provided with the shipment on a configuration report.

2.4.5 USB Interface

The USB interface provides communication to and from the Chirp 3260 and the host PC. It is a full speed 2.0 (12Mbps) connection. It mates with a standard "B" type USB cable (provided with shipment)

2.4.6 AC Input

The Chirp 3260 needs to be powered from an AC source. The voltage range is 100-120 / 200 - 240AC. The frequency range is 47-63 Hz.



Chirp 3260 Connector Panel

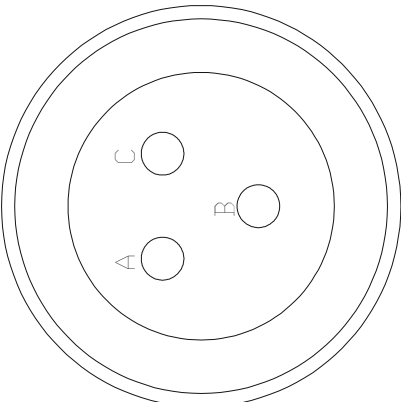
Note: There is also a custom dual USB configuration that is not shown above.

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2.5 External Cable Wiring

REV	DESCRIPTION	DATE
3	3 PIN MIL SERIES	12 APR 07

3 PIN TRANSDUCER CABLE – MIL SERIES



NOTES:
 A – Signal +
 B – Shield
 C – Signal –

BACK VIEW

ENGINEER:		K KNUDSEN ENGINEERING LIMITED HERMAN FOUWARTS COAST			
DESIGN:	D. Gibson		TITLE:	CABLE END CONNECTOR	
DRAWN:	D. Gibson		KEL ID:	D101-02343-Rev3	
PROJECT:	Chirp		FILE:		SCALE: NTS
SHEET:					

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