

Fishfinder (CruzPro) (FTI06015)

Hardware Installation Manual

Publication type: Hardware Installation Manual
Publication number: FTI06015
Title: Fishfinder
Subject: Hardware
Issue: 1.0
Publication date: 24 August 2010
Total number of pages: 13

Author: E.J. Varkevisser

Table of contents

	Page #
References.....	5
Introduction	6
About the installation manual	6
Abbreviations list	7
Revision history	7
Safety instructions	8
1. Receiving, unpacking and checking.....	9
1.1 Procedure.....	9
2. Installation and mounting.....	10
2.1 Introduction	10
2.2 Transducer installation.....	11
3. Technical specifications	12

NOTICE

**This document contains proprietary information.
No part of this document may be photocopied, reproduced or
translated into another language without the prior written consent of
Free Technics B.V.**

References

<http://www.cruzpro.com/pcf80.html>

Introduction

The Installation manual provides instructions for installing the Fishfinder (CruzPro) as used within FT NavVision[®]. The chapters and sections are organized in chronological order in which the specific components must be installed and monitored (if applicable).

About the installation manual

The installation manual contains the following chapters:

- Chapter "Safety instructions" presents warning, caution and note information, which the user should pay attention to.
- Chapter "Receiving, unpacking and checking" contains instructions on how to receive, unpack or check the Fishfinder (if applicable).
- Chapter "Installation and mounting" contains instructions on how to install and/or mount the Fishfinder (if applicable).
- Chapter "Technical specifications" contains an overview of the main features and specifications.

Abbreviations list

DSP	Digital Signal Processing
FT	Free Technics
GPS	Global Positioning System
LED	Light Emitting Diode
RMS	Root Mean Square
USB	Universal Serial Bus

Revision history

Revisions issued since publication.

Issue	Date	Revision	Reason
1.0	August 24, 2010		First release

Safety instructions

NOTE:

This section provides only a summary of the most important safety requirements and notes, which will be mentioned in the individual sections. To protect your health and prevent damage to the devices, it is essential to read and carefully follow the safety instructions.

The indications NOTE, CAUTION and WARNING have the following significance:

NOTE:

An operating procedure, practice or condition etc., which it is essential to emphasize.

CAUTION

An operating procedure, practise or condition etc., which, if not strictly observed, may damage or destroy equipment.

WARNING

An operating procedure, practise or condition etc., which, if not carefully observed may result in personal injury or loss of life.

1. Receiving, unpacking and checking

1.1 Procedure

NOTE:

Notify your sales representative if any of the items mentioned below are missing or damaged.

1. Remove the transport casing
2. Visually inspect the respective parts
3. Check that all items are included in accordance with the delivery documents.
4. Check for transport damages.
In case of transport damage appropriate action must be taken against the latest carrier and the nearest certified dealer or representative should be informed.
5. Store the part in the original transport package in a dry and dust free place, if the unit is not to be installed immediately. Observe the environmental requirements stated in the specifications

2. Installation and mounting

2.1 Introduction

The PcFF80 PC Fishfinder consists of a “black box” interface, transducer and software that turns your PC into a full-featured high resolution color Fishfinder running under the popular Microsoft Win98, WinXP, Win2000 and Vista operating systems.

Unlike other “boxed” Fishfinders, the PcFF80 will not go obsolete because the software can be updated via the internet.

The PcFF80 is a 50/200 KHz color Fishfinder with sea water temperature and full/split screen capability that works in both standard analog mode and DSP (Digital Signal Processing) modes to extend the sensitivity and depth range.

The standard package is supplied with a low-profile plastic thru-hull transducer. Two different bronze thru-hull and a plastic transom mount transducer options are available.

The PcFF80 comes with both RS232 and USB communication interfaces (cables not supplied).

The PcFF80 will display your current latitude, longitude and speed over the ground if a GPS is connected to your PC. All displayed data can be saved to log files for later playback.

The PcFF80 software is easy to learn and uses an intuitive Windows interface with drop down menus and mouse control. All settings and control values such as transmit power, pulse width, depth/temperature units, zoom modes, etc. can be saved to named setup files for immediate future use.

With a few clicks of the mouse you can recall your favorite settings for different areas or create entirely new settings.

CAUTION

- **Sonar pulses are affected by numerous naturally occurring phenomenon such as currents, thermal layers, double and triple bounce, turbulence and varying bottom conditions.**
- **While we make every attempt to try to insure that the digital depth number displayed on the screen is correct you should use this number only as one navigational input and not rely totally on the displayed number.**
- **The settings you use for transmit power, gain, etc. all affect the reliability of the displayed depth value and you should use other navigational aids such as charts and GPS position to insure that you navigate your vessel safely.**

2.2 Transducer installation

Plastic housings are recommended for fibreglass or metal hulls. Never install the plastic Thru-Hull housing into a wooden boat hull. The swelling of the wood may cause a fracture to occur. Bronze housings are recommended for wood or fibreglass hulls. Never install a bronze housing in a metal hull, because electrolytic corrosion can occur.

Stainless steel housings are recommended for metal hulls to prevent electrolytic corrosion from occurring. Never install a metal housing in a hull with a positive ground.

3. Technical specifications

Detail	Description
Operating voltage	9.5 to 16.0 VDC (0.05 A nominal - 4.7 A peak at max. power)
Indicator	Front panel LED for power on/off and communications indicator
Output power	2560 W peak-to-peak (320 W RMS) 24 kW DSP processed power (3200 W RMS)
Depth capacity	1000 ft or more at 200 kHz 1500 ft or more at 50 kHz
Operating temperature	0 – 50°C
Interface box	100 x 80 x 50 mm Powder coated aluminium extrusion
Interface	RS232, 115 kBaud, serial data and USB
Transducer	Dual frequency 50/200 kHz, depth/temperature



Free Technics

Technical & customer support
The Netherlands

Free Technics B.V.
Eikenlaan 259J
2404 BP, Alphen aan den Rijn
The Netherlands

Telephone: +31 172418 890
Fax: +31 172418 899
www.freetechnics.eu