# REEL DEEP BALL USER MANUAL

## How to use your RDB!

## Contents

# Disclaimer

The Reel Deep Ball (RDB) is an augmentation for an electric Scotty downrigger. Scotty downrigger not included. This manual does not cover the installation of the device. For installation assistance seek professional help.

# About Reel Deep Ball

The RDB uses sensors mounted in the enclosure at the end of the boom to calculate the depth of your gear. The display shows you that depth and the buttons are how you interact with the RDB. The RDB is powered off your boat's battery using the existing power connector on the Scotty downrigger. The RDB is made of two modules, for clarity's sake henceforth referred to as the Reel Wheel and the Deep Thinker, mounted at the end of the boom and on the main body respectively.
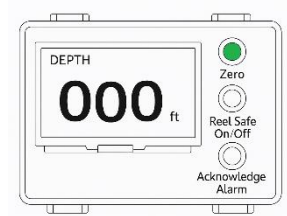
# How to use the Reel Deep Ball

The operation of the downrigger is the same as normal. Set up your gear as you would without the RDB.

### 1. Plug your downrigger into the power connection.

If you did that correctly you will see the RDB's display light up and a depth of 0 shown on screen.

### 2. Press the zero (Top) button.

Set your ball to right at the waterline and press the top button on the Deep Thinker to zero the line out and angle. This step is critical as if the line and angle values are non-zero at the beginning of operation the depth value may be inaccurate. The screen will be flashing green until you zero the device. Once completed the screen will be solid green.

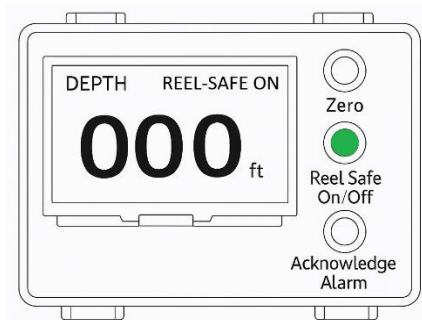### 3. Deploy the ball to the depth of your choice.

Here you will notice that depending on the angle of the line, the depth displayed on the RDB will differ from the line length shown by the downrigger's mechanical counter.

# Reel Safe (Requires connection to a fish finder)

The RDB comes with a safety feature that will automatically raise the ball if it gets too close to the ocean floor. It uses depth data from a fish finder to know the ocean depth. To connect the RDB to a fish finder refer to Reel Safe Manual.

## Enabling the Reel Safe Feature.

Press the middle button on the Deep Thinker to toggle the Reel Safe feature. An on-screen indicator will let you know whether Reel Safe is enabled or not. On start-up it is defaulted to off.



## If Reel Safe engages the motor.

The screen will be red to alert you that the motor is currently operating. After Reel Safe has finished raising the ball above the safety threshold, the screen will remain red to alert you to the fact that the ball has been raised. You can acknowledge the alarm by pressing the bottom button on the Deep Thinker. The display will then return to solid green.

## If Reel Safe is disabled

If Reel Safe is disabled and the RDB is connected to a fish finder, the backlight will still alert you if the ball is too close to the bottom. In this case the backlight will flash between red and white. You may silence the alarm by pressing the alarm silence (bottom) button; however, the screen will change to blue and remain so until the ball has been raised above the safety threshold. The display will return to green on its own by raising the ball above the safety threshold.

# LCD Colour Guide

The RDB has various LCD backlight colours to indicate different situations. This is the refence guide to the colours that can appear on the Deep Thinker.
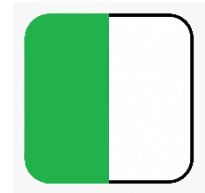
## Solid Green

System is on, everything is good

## Flashing Green & White

System has been turned on and needs to be zeroed, after system has been zeroed by the user it will turn to solid green.

## Solid Red

Reel Safe feature enabled, gear is being pulled up or has been pulled up, light will stay on till the alarm has been acknowledged by the user then goes back to green.

## Flashing Red & White

Reel Safe Feature has been turned off, and the gear is exceeding the safety threshold. The screen will continue to flash until user acknowledges the alarm and turns off reel safe feature on.

## Solid Blue

User has acknowledged the alarm from the flashing red and white state but has not raised they gear yet and gear is still exceeding the safety threshold.