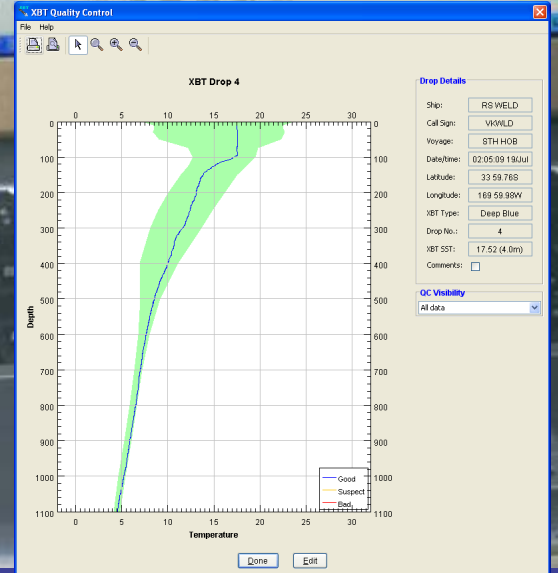


# TURO DEVIL XBT

with USB



eXpendable BathyThermograph data acquisition and recording system

## Acquisition Recording Analysis

- USB interface, USB powered
- Compact and light weight
- Fully compatible with Sippican<sup>1</sup> launchers and XBT probes



- Windows 7, Windows 8.1  
Windows 10
- Global Charts
- Climatology database
- Quality control
- GPS input



# DEVIL XBT data acquisition and recording system

## XBT Acquisition and Recording

The Turo Devil XBT System is fully compatible with Sippican<sup>1</sup> launchers and uses Sippican probes<sup>2</sup> to record ocean temperature profiles.

The Turo Devil XBT System includes the acquisition unit and comprehensive Devil software.



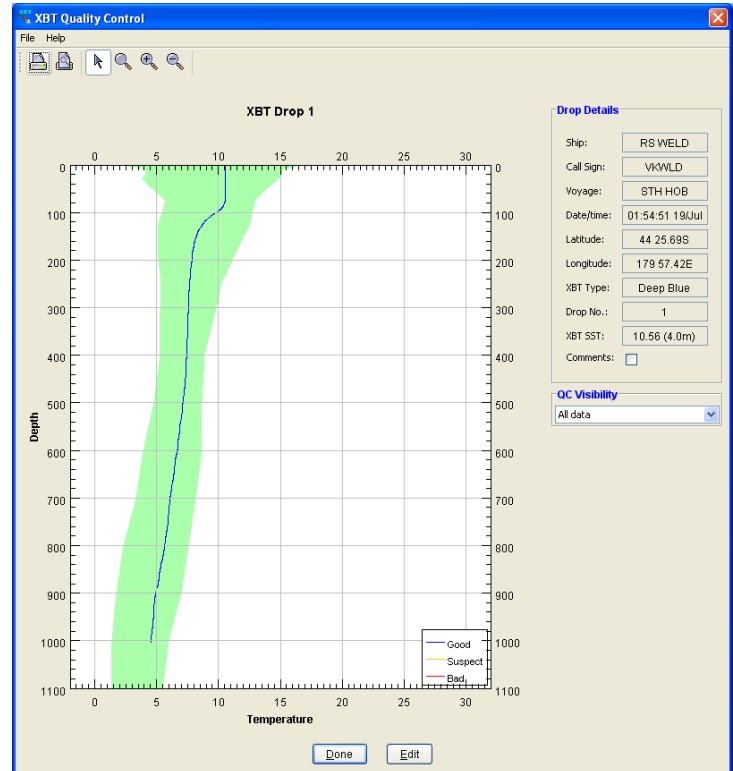
## Truly Portable

For the first time it is possible to do XBT drops from small survey vessels, away from the main ship. A laptop computer, a hand launcher and the Devil XBT acquisition unit offers the full power of the Devil XBT System in a truly portable mode.

The Devil is powered through the USB port - no batteries or external power supply is needed. Compact and lightweight, Devil XBT System is so simple to install, it can be done in minutes.

## Acquisition, Processing and Management

- Software included with Devil offers:
  - Windows 7, Windows 8.1, Windows 10
  - Four operating modes for Open, Restricted, SOOP and Secure situations each with Administrator and Operator permissions
  - Global atlas
  - Global climatology database
  - First pass Quality Control analysis
  - Sound speed profile using XBT probes with advanced climatology assisted or simple fixed salinity algorithm
  - Display:
    - realtime temperature or sound speed profile plot
    - single or multiple drops
    - climatology overlay
    - location of drops on the chart
    - colour coded QC on temperature & calculated sound speed graph
  - Formats: netCDF, ascii, JVVV, CALC
  - Automatic GPS input
  - Iridium satellite transmission support
  - Integral training simulator



### XBT System

#### Compatibility

Fully compatible with Sippican<sup>1</sup> hand and thru hull launchers  
Uses Sippican<sup>1</sup> probes<sup>2</sup>

#### XBT Probes

**Electrical**  
Sample rate  
Computer connection  
XBT connection  
Power Supply

10 Hz  
USB  
DB9 socket, Sippican<sup>1</sup> compatible  
USB bus powered

#### Mechanical

Size box (L x W x H)  
Weight

139.0 x 106.0 x 28.5 mm  
275 gm

#### Environment

Operating temperature

-5 to +60°C

#### Computer Requirements

Operating system  
Computer I/O

Windows 7, Windows 8.1, Windows 10  
USB

#### Optional GPS

GPS module  
Format  
Computer I/O

Standard GPS unit  
NMEA 0813 \$GPGLL or \$GPGGA  
rs232

#### Optional Iridium Transmitter

Transmitter  
Computer I/O

NAL 9601  
rs232



1 Lockheed Martin Sippican, Inc

2 XBT probes T4, T5, T6, T7, T10, Deep Blue, Fast Deep