

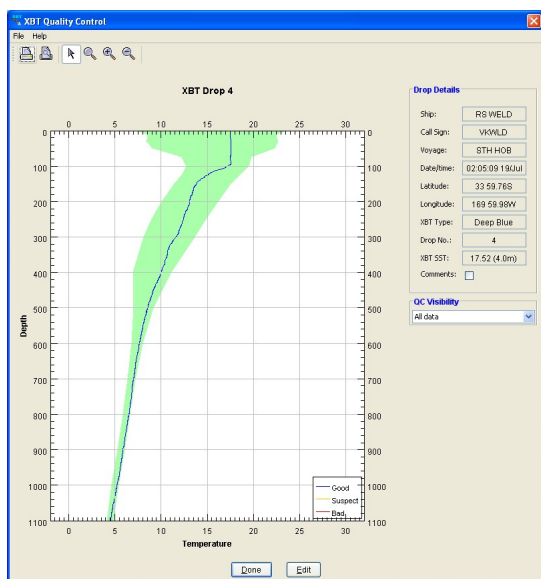
# TURO QUOLL

## XBT and XSV Recorder with USB and Ethernet



### Acquisition Recording Analysis

- ▶ Flexible power choices
- ▶ USB bus powered
- ▶ Ethernet PoE powered
- ▶ External DC powered



- ▶ Compact and light weight
- ▶ Fully compatible with Sippican<sup>1</sup> launchers and XBT and XSV probes
- ▶ Windows 7, Windows 8.1
- ▶ Global Charts
- ▶ Climatology database
- ▶ Quality control
- ▶ GPS input
- ▶ Satellite telemetry



# QUOLL XBT & XSV

## data acquisition and recording system

### XBT and XSV Acquisition and Recording

The Turo Quoll Expendable Probe System is fully compatible with Sippican<sup>1</sup> launchers and uses Sippican XBT probes<sup>2</sup> and XSV probes<sup>3</sup> to record ocean temperature and sound speed profiles.

The System includes the Quoll acquisition unit and acquisition/processing/management software.



### USB or Ethernet Connection

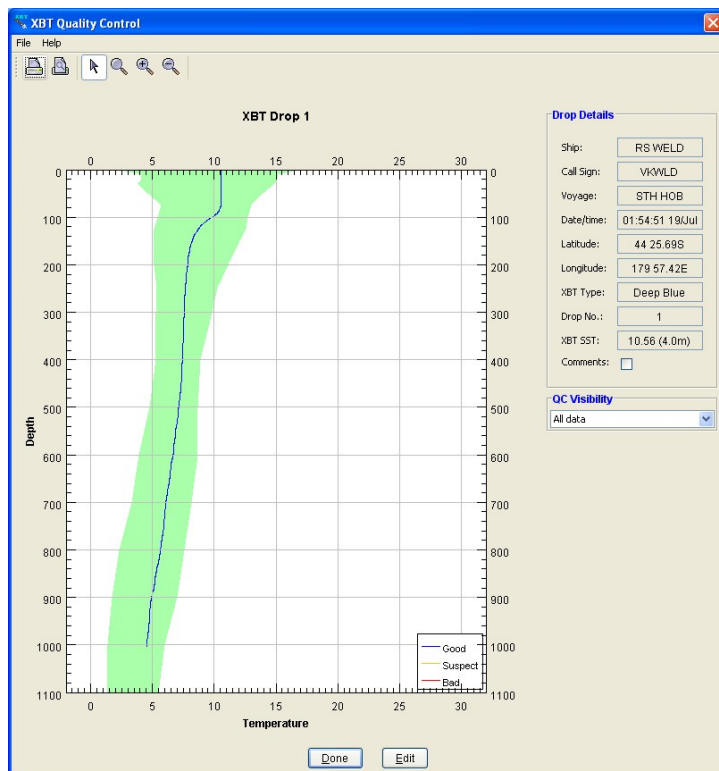
Quoll can be connected through the USB or the Ethernet port.

**Ethernet:** For the first time a direct network interface to the XBT recorder is possible. And to add flexibility Quoll supports Power over Ethernet (PoE). Quoll can be powered either through a standard AC adapter or via its PoE function

**USB:** When USB is used, power comes from the USB connection and frees the unit from requiring an external power supply making it a truly simple and portable setup.

### Acquisition, Processing and Management

- ▶ Software included with Quoll offers:
  - ▶ 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 XSV probes
    - ▶ using XBT probes with advanced climatology assisted algorithm 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 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> handheld and thru hull launchers  
Uses Sippican<sup>1</sup> XBT and XSV probes<sup>2,3</sup>

#### Probes

**Electrical**  
Sample rate  
Probe connection  
Computer connection

10 Hz  
DB9 socket, Sippican<sup>1</sup> compatible  
USB 2.0, full speed  
or  
Ethernet network  
USB bus powered  
or  
Power over Ethernet (PoE)  
or  
External 12 - 30 volts DC, 300 mA

#### Power Supply

### Mechanical

Size box (L x W x H)  
Weight

139.0 x 106.0 x 28.5 mm  
290 gm

### Environment

Operating temperature

-5 to +60°C

### Computer Requirements

Operating system  
Computer I/O

Windows XP, Windows 7, Windows 8.1  
USB or Ethernet network

### Optional GPS

GPS module  
Format  
Computer I/O

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

### Optional Iridium Transmitter

Transmitter  
Interface/Computer I/O

NAL 9601  
rs232



Spotted Tail Quoll  
(*Dasyurus maculatus*)  
Tasmanian marsupial

- 1 Lockheed Martin Sippican, Inc
- 2 XBT probes T4, T5, T6, T7, T10, Deep Blue, Fast Deep
- 3 XSV probes XSV-01, XSV-02, XSV-03