TURO QUOLL

XBT and XSV Recorder with USB and Ethernet

QUOLL XBT-sv

Turo

Acquisition
Recording
Analysis

➤ **Flexible power choices**

➤ **USB bus powered**

➤ **Ethernet PoE powered**

➤ **External DC powered**
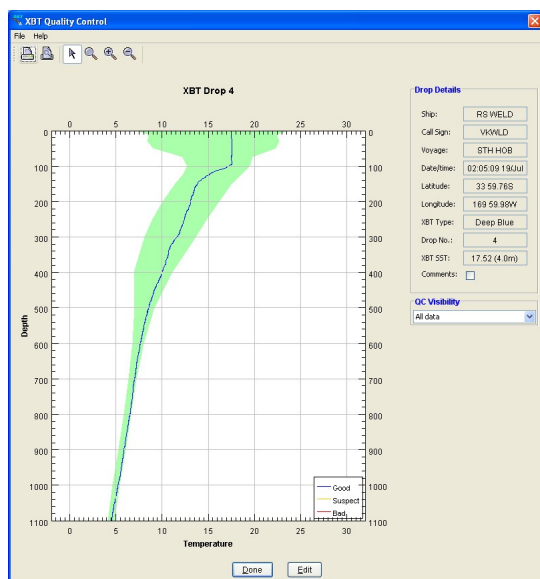
➤ **Compact and light weight**

➤ **Fully compatible with Sippican[1] 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[1] launchers and uses Sippican XBT probes[2] and XSV probes[3] to record ocean temperature and sound speed profiles.

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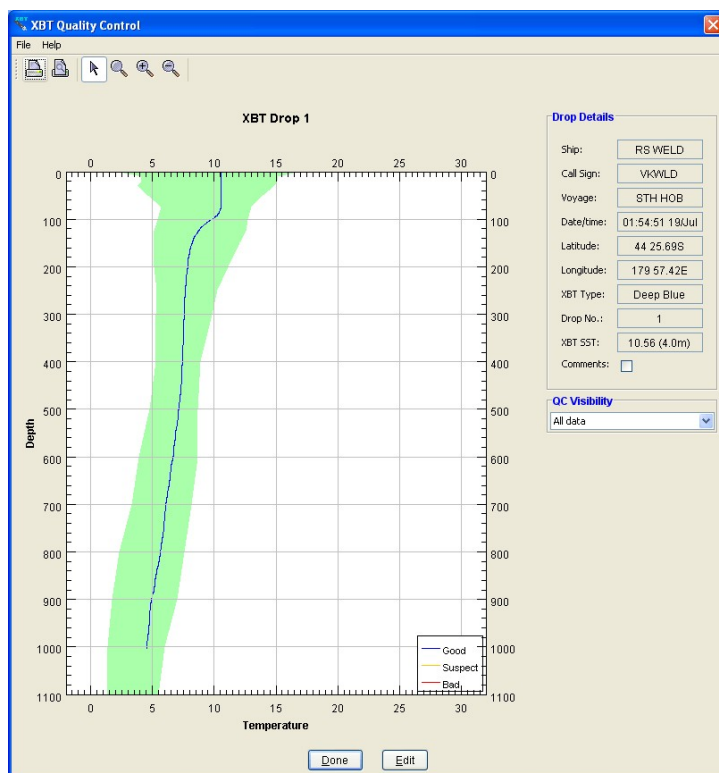

USB or Ethernet Connection

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, JJVV, CALC
► Automatic GPS input
► Iridium satellite transmission support
► Integral training simulator

XBT Quality Control — *XBT Drop 1* profile plot

Drop Details:
Ship:	RS WELD
Call Sign:	VKWLD
Voyage:	STH HOB
Date/time:	01:54:51 19/Jul
Latitude:	44 25.69S
Longitude:	179 57.42E
XBT Type:	Deep Blue
Drop No.:	1
XBT SST:	10.56 (4.0m)
Comments:	☐

QC Visibility: All data

Legend: Good, Suspect, Bad

[Done] [Edit]

Specifications

XBT System

Compatibility	Fully compatible with Sippican[1] handheld and thru hull launchers
Probes	Uses Sippican[1] XBT and XSV probes[2,3]

Electrical

Sample rate	10 Hz
Probe connection	DB9 socket, Sippican[1] compatible
Computer connection	USB 2.0, full speed or Ethernet network
Power Supply	USB bus powered or Power over Ethernet (PoE) or External 12 - 30 volts DC, 300 mA

Mechanical

Size box (L x W x H)	139.0 x 106.0 x 28.5 mm
Weight	290 gm

Environment

Operating temperature	-5 to +60°C

Computer Requirements

Operating system	Windows XP, Windows 7, Windows 8.1
Computer I/O	USB or Ethernet network

Optional GPS

GPS module	Standard GPS unit
Format	NMEA 0813 $GPGLL or $GPGGA
Computer I/O	rs232

Optional Iridium Transmitter

Transmitter	NAL 9601
Interface/Computer I/O	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

T-403-2c