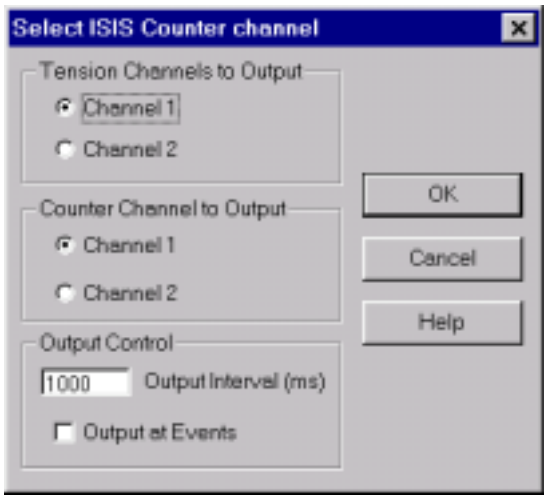
WinFrog Device Group:	OUTPUT
Device Name/Model:	ISIS Triton
Device Manufacturer:	**Triton Elics International, U.S.A.** 125 Westridge Drive Watsonville, CA 95076 Voice: (1) 831 722-7373 FAX: (1) 831 722-1405 support@tritonelics.com sales@tritonelics.com
Device Data String(s) Output to WinFrog:	none
WinFrog Data String(s) Output to Device:	Event Number, Line Name, Time, Date, Northing, Easting, Pitch, Roll, Heading, Depth, Altitude, Cable Count, Tension
WinFrog .raw Data Record Type(s):	OUTPUT: Type 450

DEVICE DESCRIPTION:
Outputs the described data for inclusion with the ISIS system.

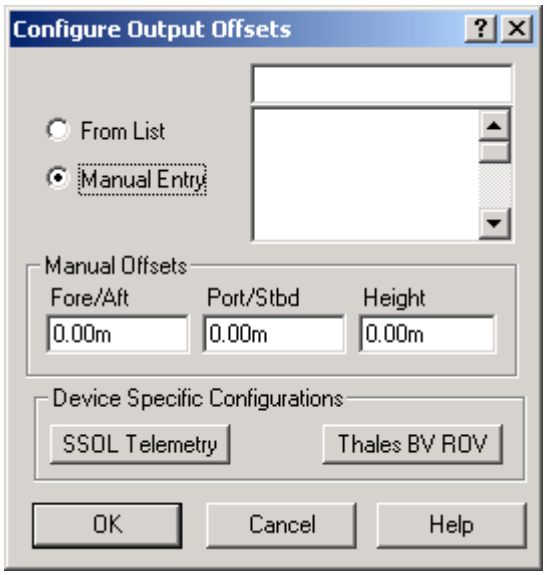
DEVICE CONFIGURATION INSTRUCTIONS:
Baud Rate: 9600
Bits Per Character: 8
Stop Bits: 1
Parity: None

WINFROG I/O DEVICES > CONFIG OPTIONS:
The dialog box shown below allows you to select from which channels to obtain the cable count and tension. The channels are dependent upon the counter device in use. Output of the desired data requires checking. You may also select the output interval in milliseconds and additional outputs at each event.



WINFROG VEHICLE TEXT WINDOW > CONFIGURE VEHICLE DEVICES > DEVICE > EDIT OPTIONS:
The **OUTPUT,ISIS Triton, DATA OUTPUT** data item is added to the vehicles' device list and must be edited to suit the application.

Attach this data type to the ROV for which data is to be output. When edited the following dialog box appears:



Configure Output Offsets:
Normally the position that is to be output will be the position of the CRP of vehicle. However if another position is required, the offset to be applied to the output position for the ISIS Triton can either be taken from the list of vessel offsets or a manual offset entry can be input. You should select the appropriate radio button (From List or Manual Entry). The offset can now be highlighted from the list, or if Manual Entry is chosen, the offset values can be input. The position data output will now be referenced to the offset location chosen.

Device Specific Configurations:
Under the Device Specific Configurations section, there are two buttons that access dialog boxes **SSOL Telemetry** and **Thales BV ROV**. These dialog boxes are only to be modified for specific applications. You should not modify these items unless completely familiar with the outcome.

SSOL Telemetry:
This configuration is specifically designed for the SubSea Telemetry system. Other companies, specifically those working in the North Sea area, later adapted this output format. In almost all instances the positioning devices (e.g. GPS, GYRO) would be located on the same vessel as the ISIS Triton system, and within cabling distance. Therefore it is unlikely that this option would be used. If this option is required, refer to the I/O documentation on NMEA Output for configuring the SSOL Telemetry.

Thales BV ROV:
This configuration is designed to output the Thales BV ROV Driver position to the ROV Data Logging software/system Thales BV ROV. This option would most likely not be used for the ISIS Triton Output. Should configuration information be required on this option, refer to the I/O documentation on the NMEA Output Device.

CONFIGURATION DETAILS:
Refer to ISIS Triton Reference and Installation manuals for system set up. Experienced personnel should perform this.

Data Output:

The triton output is:
ev,line
name,hh:mm:ss,dd/mm/yy,nnnn.nn,eeee.ee,p.p,r.r,h.h,d.dd,a.aa,c.c,t.tt<CR><LF>

Where:
ev = event number
nnnn.nn = northing
eeee.ee = easting,
p.p = pitch
r.r = roll
h.h = heading
d.dd = depth
a.aa = altitude
c.c = tow cable count
t.tt = tow tension