

WinFrog Device Group:	GYRO
Device Name/Model:	SimGyro
Device Manufacturer:	
Device Data String(s) Output to WinFrog:	NONE
WinFrog Data String(s) Output to Device:	NONE
WinFrog Data Item(s) and their RAW record:	HEADING 409

DEVICE DESCRIPTION:

This is a simulated device designed to provide data similar to real time gyro devices. This device is typically used for simulation and training purposes, however, it can be used in real time situations if the heading of the vessel is known. The SimGyro device is also commonly used when resetting the Cable Model. When the SimGyro Heading data item is associated with a vehicle, the heading of the vehicle can be changed using the



buttons in the 'Simulation Tools' toolbar.

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:

No I/O parameters - Simulated Device

WINFROG I/O DEVICES > CONFIGURE DEVICE:

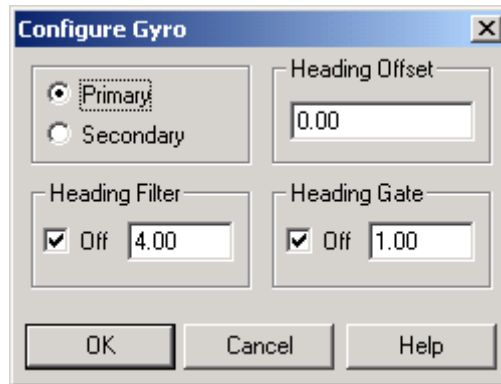
No configuration is required at the I/O Device window level.

WINFROG VEHICLE > CONFIGURE VEHICLE DEVICES > DEVICE DATA ITEM > EDIT:

Adding the SimGyro device creates the HEADING data item. Once the data item has been added to the vehicle, it must be edited to suit the application.

Data item: GYRO, SimGyro, HEADING

Highlight the GYRO, SimGyro, HEADING data item in the vehicle's device list and click the Edit button to open the Configure Gyro dialog box as seen below.

**Calculation (Primary/Secondary):**

Set the type of calculation to Primary or Secondary by selecting the appropriate radio button. Devices set to Primary are used to provide the vehicle with heading information. However, unlike the Position data items, WinFrog does not calculate a weighted mean solution for multiple Heading data items. If more than one Heading data item is set to primary, the vessels heading, in WinFrog, will jump back and forth between the two. Devices set to Secondary are simply monitored, and are not used in the vehicle's calculations.

In the case of Primary device failure, WinFrog will not automatically use the Secondary device(s). You must manually change a Secondary device to Primary status in order for it to be used in the vehicle's calculations.

Heading Offset:

This option is commonly used with the SimGyro device in order to configure the device to properly orient the vehicle. A correction value can be input in the Heading Offset box. This value is added to the heading value from the device to provide a corrected heading for the vehicle. Note that positive or negative values can be entered.

Heading Filter/Heading Gate:

Neither of these options are typically used with the SimGyro device and should both be set to Off.