WinFrog Device Group:	OUTPUT
Device Name/Model:	Video Overlay
Device Manufacturer:	This driver supports four manufacturers: Taylor/Leibnitz Lann Hydro Vision Rapid Research Outland 5000A
Device Data String(s) Output to WinFrog:	None
WinFrog Data String(s) Output to Device:	User Configurable
WinFrog Data Item(s) and their RAW record:	DATA OUTPUT 450

DEVICE DESCRIPTION:

This device controls the output of data to be overlaid on a remote computer screen(s). Note that it is important to select the appropriate Video Overlay Model as the various options output different formats.

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:
Serial
Configurable Parameters

WINFROG I/O DEVICES > CONFIGURE DEVICE:
This device must be configured at the I/O Device window level. In the I/O Devices window, click the device name to select it, then right-click and select Configure Device. The Config Output String dialog box appears, as seen below.
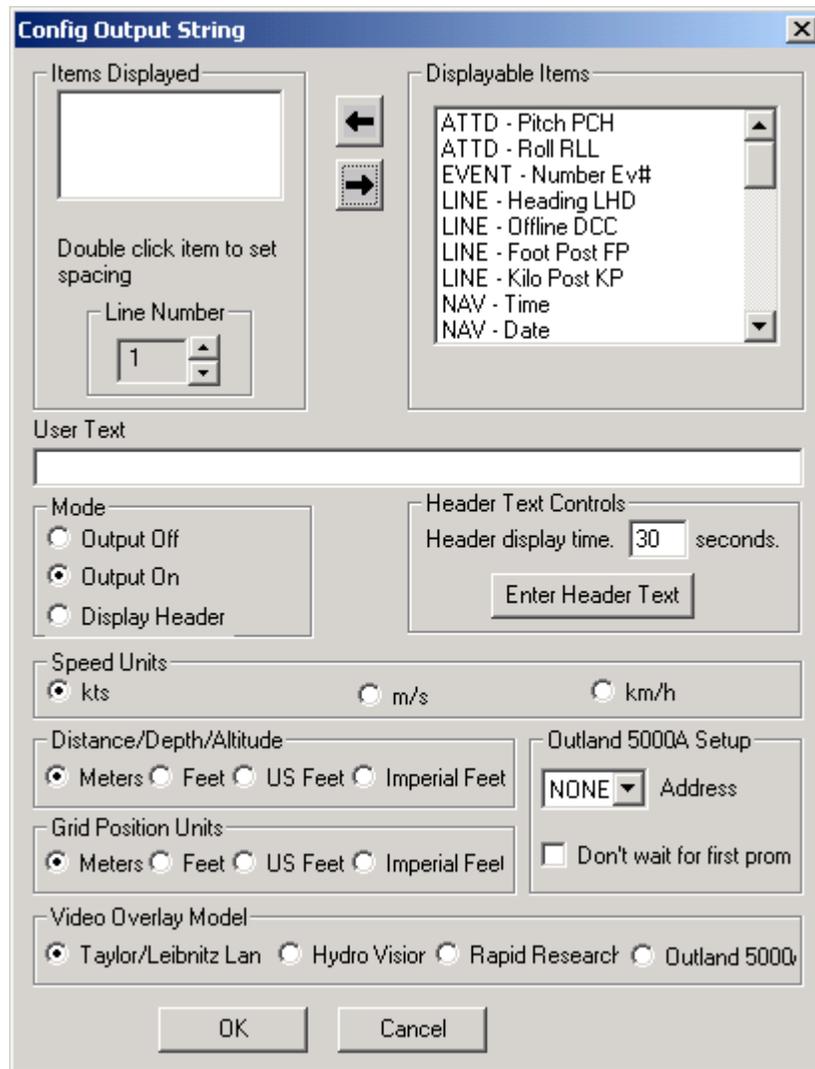
You can select the desired data to be output in the Displayable items section. Up to 24 lines, each line containing up to four displayable items, can be configured. To configure the data to be displayed, highlight the desired item in the Displayable Items list and click the ← button to add it to the Items Displayed list.

If Header information is required on the video overlay, click the Enter Header Text button to open the Video Overlay Header dialog box, as seen below.

Video Overlay Header

Enter information to be displayed on the video monitor. The captions may be replaced. Blank lines will appear as blank lines on the video monitor.

Client:
Contractor:
Date: 17/02/2003
Vessel:
Project:
ROV:
Dive Task:
Dive No:
Tape No:
Comments:

[OK]   [Cancel]

Enter the required header information and exit with OK. The header information is only displayed for the specified interval when the Display Header option is selected. Once the specified time interval has elapsed, the mode will switch to Output On. No other information is displayed while the header information is displayed.

You can also specify User text by selecting the MISC – User Text item from the Displayable Items list and entering the desired text in the User Text dialog box.

The units for the speed, distance, depth, altitude and Grid position Displayable Items can be configured from the appropriate sections.

The Outland 5000A is another unit that displays serial data as a video overlay. It can be configured to output the desired data to up to 8 separate screens. The addresses are 0-7 and are configured in the Outland 5000A's internal dipswitches. The Outland 5000A can send a prompt (an asterisk) to request the data or you can choose to output the data without waiting for the prompt. For more details refer to the Outland 5000A documentation or to their website www.outlandtech.com.

In the Video Overlay Model section, you must select the appropriate system for the data to be output to from the four available options. These options all represent a different output format so it is important that the correct one for the current project be selected.

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

Adding the Video Overlay device creates the DATA OUTPUT data item. Once the data item has been added to the vehicle, it must be edited to suit the application.

Data item: OUTPUT, Video Overlay, DATA OUTPUT

Highlight the OUTPUT, Video Overlay, DATA OUTPUT device and click the Edit button to open the Configure Output Offsets dialog box seen below.
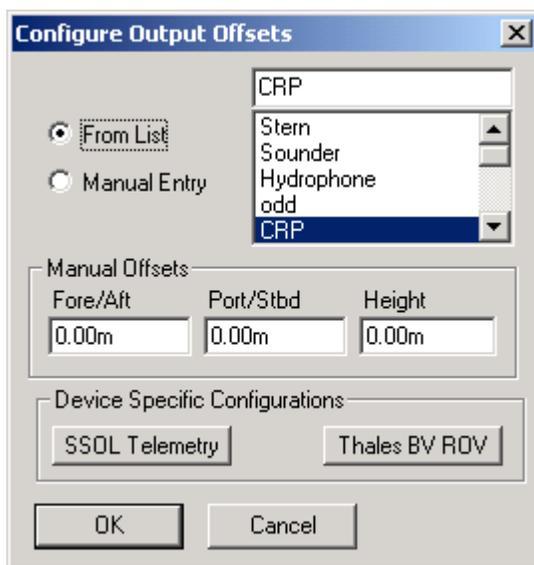
Select the desired reference point for the coordinates that are to be placed in the telegram. If an offset point is not selected and the offsets are set to 0, the coordinate output will be the CRP or central reference point.

The SSOL Telemetry and Thales BV ROV buttons are not used for this device.

Note regarding the Offset position(s) to be output:

The POS items' (La/Lo,N/E) position output can be configured by selecting the desired offset from the Configure Output Offsets dialog box shown above.

The NAV items' (oLa/oLon,oN/oE) position output can be configured by selecting the desired offset from the Configure Offsets dialog box shown below. The Configure Offsets dialog can be accessed by selecting Configure > Vehicles > Configure Offsets from the main menu.

TELGRAM SPECIFICATION:

User Configurable.