

WinFrog Device Group:	OUTPUT
Device Name/Model:	MCG-3
Device Manufacturer:	Burst Electronics, Inc. PO Box 1468 Corrales, NM U.S.A. 87048-1468 Tel: (505) 898-1455 Tech Support Hot Line: (505) 890-8926 Fax: (505) 898-0159 Email: sales@burstelectronics.com
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:

The Burst Electronics MCG-3 Color Micro Character Generator is a genlockable unit that accepts a standard NTSC video signal and overlays color characters with a selectable color background.

In the overlay mode (input video present), the MCG-3 may be set to automatically switch to the stand-alone mode and display a special message (page 10 of its memory) upon loss of input video. Additionally, the MCG-3 incorporates a video bypass circuit that will loopthru video upon loss of power to the MCG-3.

Maximum number of characters displayable per page is 240 (24 characters by 10 lines) with 10 pages of nonvolatile storage. There are 16 character sizes (4 character heights and 4 character widths).

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:

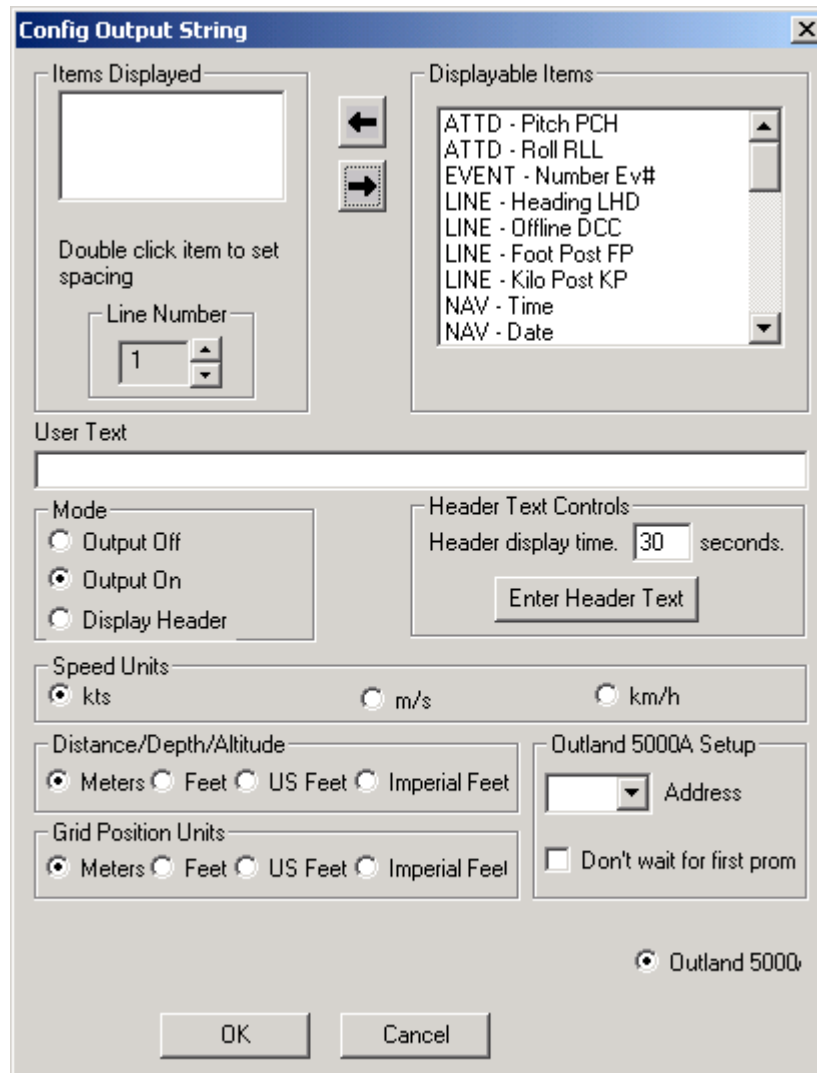
Serial

Configurable Parameters

A dialog appears in which to change the name of the device if desired.

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.



The 'Config Output String' dialog box is used to configure the output string for a device. It features a 'Displayable Items' list on the right containing: ATTD - Pitch PCH, ATTD - Roll RLL, EVENT - Number Ev#, LINE - Heading LHD, LINE - Offline DCC, LINE - Foot Post FP, LINE - Kilo Post KP, NAV - Time, and NAV - Date. Arrows allow moving items between the 'Items Displayed' list (currently empty) and the 'Displayable Items' list. Below these is a 'Line Number' spinner set to 1. A 'User Text' field is present. The 'Mode' section has radio buttons for 'Output Off', 'Output On' (selected), and 'Display Header'. 'Header Text Controls' include a 'Header display time' of 30 seconds and an 'Enter Header Text' button. 'Speed Units' are set to 'kts' (selected), with 'm/s' and 'km/h' as options. 'Distance/Depth/Altitude' and 'Grid Position Units' both have radio buttons for 'Meters' (selected), 'Feet', 'US Feet', and 'Imperial Feet'. The 'Outland 5000A Setup' section includes an 'Address' dropdown and a 'Don't wait for first prom' checkbox. At the bottom, the 'Outland 5000A' device is selected, and 'OK' and 'Cancel' buttons are provided.

From this dialog box you can select the desired data to be output for the video overlay. Up to ten lines, each line containing up to four displayable items, can be configured. You can also specify Header data, User text (by selecting the MISC – User Text item) as well as the desired output units.

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 dip switches. 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

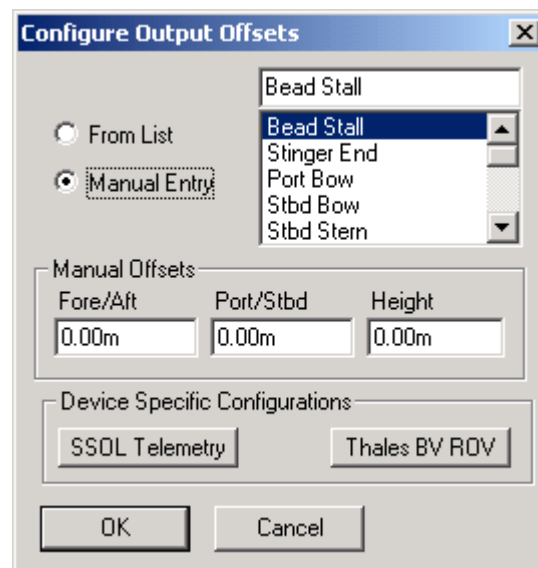
more details refer to the Outland 5000A documentation or to their website www.outlandtech.com.

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

Adding the MCG-3 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, MCG-3, DATA OUTPUT

Highlight the OUTPUT, MCG-3, DATA OUTPUT data item and click Edit to open the Configure Output Offsets dialog box as 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 co-ordinate output will be the CRP or central reference point. The SSOL Telemetry and Thales BV ROV buttons are not used for this device.

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

Configure Offsets							
On	Plot	Label	Name	Fore/Aft	Port/Stbd	Elev	Trail
☒	☒	☐	Stern	-20.00m	0.00m	0.00m	☐
☐	☒	☐	Sounder	-5.00m	6.00m	-3.00m	☐
☐	☒	☐	Hydrophone	5.00m	12.00m	0.00m	☐
☐	☒	☐	CRP	0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐	☐	☐		0.00m	0.00m	0.00m	☐
☐ Off ☒ Use Heading ☐ Use CMG							
OK		Cancel		Help			

TELGRAM SPECIFICATION:

User Configurable.