

Artemis Mk5 HMI software

Quick guide for Mobile station

Introduction

This document describes the most important settings to operate an Artemis Mk5 Mobile station with the Artemis HMI software.

Description

The Artemis HMI software consists of two programs: -The Artemis network program -The Artemis control panel.

Therefore there are two shortcut icons on the desktop:

Shortcut icon control panel:



Shortcut icon network program:



Artemis Mk5 network program

The Artemis Mk5 network program takes care for the communication between the Artemis computer and the antenna unit up into the mast.

Correct communication is indicated by:

-Flashing TX/RX LED -Scrolling data in the "data in" and "data out" box

Startup Communications	Minimize Simulator About
Network Status Serial Data Status Flashing TX/RX LE	Serial Ports Tx Rx Com Port 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Control Panel Network No.Panels Connected 0 Control Panel Data Tx Data rr. (Local Attonis)	Data in: (Remote Artemis)
CCR_pwd2_S1 CCR_pwd2_S0 CCR_prfm_S1 CCR_rslS1 CCR_sllS1	scrolling data
Data out: [Local Artemis] SCR_pwd2_S SCR_pwd2_S SCR_pwd2_S SCR_prfm_S SCR_rxga_S SCR_stl_S	Data out: (Remote Artemis)
	CCD Undete ante 10 e ere

The network program have to run always, but you do not have to see it all the time. Therefore when everything is ok press the "minimize" tab to minimize the program:

Uprograph	1911		
Artemis MK5 Simul	ator	-	
Startup Commu	nications (M	inimize Simul	lator A
Network Status	T., D.,	Serial Ports	Tx Bx
Seliai Data		Com Port 1	7

Control panel

The control panel software is the software to control the Artemis.



Operate modes

On the left side of the control panel the operate modes could be selected

Standby

STANDBY:

Select Standby when the Artemis is not in use. (We recommend not to switch off the unit but use standby mode)

Click on the standby box

(box will get green) to switch to standby mode.

OPERATE:



When clicking with the mouse on the "operate" box (box will get green) you switch the Artemis in manual search mode. In manual search mode you should use the Arrow keys (by pressing mouse on it) to rotate the scanner.:



Keep the mouse pressed at the arrow key to move the antenna.

AUTO SEARCH

By selecting both the "operate" and "auto Srch" box (both get green) the Artemis will be in auto search mode. (Antenna scan automatic)



When you like to switch back to operate mode (manual search) just press again at the "auto srch" box (will get blueagain) to switch auto search off.

Status

In the "Status" box you see current status of the Artemis.



When the Artemis has found and locked in to the counter fix station, status is indicated with Locked:

Artemis Mk5 Status :



Big screen

To increase the font of the control panel you can select "big screen" by ticking the big box.

Panel Mode :

🗖 Big

Making nomal size again by un-ticking the "big box"



Configuring/ setting up the Artemis.

By pressing with the mouse at the "setup AU" box you have access to several menus to configure the Artemis.
NOTE: For some menus a password is requested to make the changes valid.
The password to enter is "setup".

If you like to go back to the normal operate screen you have to press the setup box



Every time you make a change to the configuration (frequency, address etc.) you have to press the Apply

 Cancel

 button

Basic menu

When pressing at the basic tab at the setup menu you can change basic settings as frequency, address etc.

Artemis Control Panel - Mobile Station			
Operating Modes	Network / User Settings Co Station Basic Advanced	ommunications Colors Counter Station	
ldle Standby	Station Mode • MK3 • MK4	Apply Cancel	
Operate Auto Srch	Frequency Pair	Address Code local 0 ! NOTE MK4 0-63 MK5 0-999	
Setup	Actual fr. 9200.0 [MHz] Left Scan Limit 1 [Degr]	Set cur. brg as left	
Setup AU Option	Right Scan Limit 1 [Degr]	Set cur. bear. as right	
Option	Left Physical Limit 0 [Degr] Right Physical Limit 0 [Degr]	Scan Area	
Service Monitoring Colors Day Night Exit			

Connected to: BOT-LT-0037.reson.root 192.168.44.201

-Station mode: Not important you can ignore. This does not affect performance. -Frequency pair. Select frequency pair by ticking the box and press Apply button.

Freque	ency Pair	Address Code	
0 0	9230 F - 9200 M	local 0	
01	9270 F - 9300 M		
0 2	9200 F - 9230 M	INUTE	
03	9300 F - 9270 M	MK5 0-999	
Actua tick box to select			
Left S	apply" button	: cur. brg a:	
Right So	can Limit 🛛 1 [Degr]	Set cur. bear. a	

-Address code. Type in address code in the box and press apply.

	Apply
	Cancel
Addres	s Code
local	0
! NO1	E
MK4	0 - 63
MK5	0 - 999

-Scan limit. Scan limits are used when you use Auto search mode. Fill in the left and right scan sector and press "apply" button. This will be the sector the scanner will turn when Auto search is selected. (in this example between 90 and 270 degrees)

Left Scan Limit	90 [Degr]	Set cur. brg as left
Right Scan Limit	270 [Degr]	Set cur. bear. as right

-Physical scan limit

Never use physical scan limit. Keep these values zero!!!:



Advanced menu

In the advanced menu advanced settings could be set

Artemis Control Panel - Mobile Station			
Operating Modes	Network / User Settings Communications Colors Station Basic Advanced Counter Station		
Idle Standby	Station Type C Fix C Mobile C Beacon C Automatic C Automatic C Automatic		
Operate	Enable Remote Configuration (On = MK4/ Off = MK5)		
Auto Srch	Enable Auto Recovery Azimuth added by Mobile		
Setup	Enter Azimuth 0.000 Set		
Setup AU	Reference Azimuth/Bearing		
Option	Enter Azimuth 0.000 Set		
Service	Azimuth/Bearing Setpoint Setpoint 000 Turn		
Monitoring	De-Icing		
Colors	Servo Mode / Simulation		
	Normal Mode		
Night	Open Loop		
Exit	Liose Loop		

-Station type: Mobile

- -Tx power mode: Automatic
- -Enable auto recovery: Box should be ticked.
- "Azimuth added by mobile": always 0

- "Reference Azimuth/Bearing": This value should be 0 when the scanner is pointed to ships bow. (If this value is not ok you will get heading errors at the DP)

- "Azimuth/bearing Setpoint": always 0

- "De-icing": Click at box to switch on antenna heating. (when on, status will be green)
- "Normal Mode": always status green

Station

With the Station menu it is possible to select a pre-programmed station. When select a station from the list and press the apply button the frequency pair and address for this particular station is set.

Artemis Control Pane	el - Mobile Statio	n	
Operating Modes	Network / User	Settings Communications	
	Station Bas	ic 📔 Advanced 📲 Counter Static	in 📄
Idle	Selected Station		Analu
			мрріу
Standby			Cancel
	Station Code	Station Name	
	100	Alba	
Operate	101	Asgard A	
	102	Asgard C	
	103	Balder	
Auto Srch	104	Banff	=
	105	Captain	
Setup	106	Draugen	
	107	Durward & Dauntless	
Setup AU	108	Fite	
	109	Gryphon	
Ontine	110	Hybernia ULS North	
Uption	111	Hybernia ULS South	
0-11-12	112	Jotun Kittimaha 1	
Opuon	113	Killiwake i	
	114	Nilliwake 2 Maureen	
Service	115	Mauleen Navion Europa 1	
	117	Navion Europa 2	
Monitoring	118	Nord	
	119	Nome	-
Colors	1.12		
Dav	Selected Station	n: test	
	Address Code:	0	
Night	Frequency Pair:	0	
	Buoy Type:	FSU	
Exit	Artemis Type:		

See document "Engineer note buoy adding" how to add a new buoy/station into the list.

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