MIR5000-M3P

Quick guide for installation and use UM036EN01





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1 INTRODUCTION

This document aims at explaining the steps to follow to achieve a quick and effective installation of the MIR5000 buoy reception system with M3P and M3P-T models.

The new longline location system designed by Marine Instruments includes transmitters (M3P and M3P-T buoys) which will send positions of several points of the lines configured, the buoy reception system via radio (MIR5000) and MSB Palangre software, which displays the data received by MIR5000.

In this document we will explain how the system is installed and how you can easily start receiving buoys in order to manage the longlines deployed.



2 INSTALLATION OF MIR5000 RECEPTION SYSTEM

2.1 INSTALLATION DIAGRAM



WARNING: MIR5000 must be supplied with the 220V_{AC} transformer provided with the device. Supply at 24 V_{DC} is not allowed.





2.2 RECEIVER -INTERFACE CABLE ASSEMBLY

Hirschmann	RJ45
1	Marrón-Blanco / Brown-White / Marron-Blanc
2	Verde / Green / Vert
3	Verde-Blanco / Green-White / Vert-Blanc
4	Naranja / Orange / Orange
5	Naranja-Blanco / Orange-White / Orange-Blanc
6	Azul / Blue / Bleu
TIERRA / GROUND / TERRE	Marrón / Brown / Marron
Cortado / Cut / Coupé	Azul-Blanco / Blue-White / Bleu-Blanc

	OBSERVACIONES / NOTES / NOTES
	 A - Hirschmann CA6LS B - RJ45 Apantallado. Estándar conexión T568B / Shielded RJ45. T568B Standard connection / RJ45 Blindé. Cáblage selon le standard T568B C - Manguera FTP Cat5e (15 m) / Cat5e FTP Cable (15 m) / Cáble FTP Cat5e (15 m) D - Funda termorretráctil / Heat shrink tubing / Gaine thermo-rétractable





3 MSB PALANGRE AND MIR5000 DRIVERS INSTALLATION

3.1 PC MINIMUM REQUIREMENTS

	Minimum requirements	Recommended	
Operating System	XP SP3 or later	XP SP3 or later	
Processor	1.5 GHz	2 GHz or later	
Memory	1 GB RAM	2 GB RAM	
Resolution	1024 x 768 minimum display resolution		

3.2 SOFTWARE AND DRIVERS INSTALLATION

Install MSB Palangre following the instructions in chapter *MSB Palangre Software Installation* of the MSB Palangre User's Manual.

Next, install MIR5000 drivers following the instructions in chapter *FTDI Drivers Installation* of the MSB Palangre User's Manual (FTDI drivers can be downloaded at: www.ftdichip.com/FTDrivers.htm).



3.3 WINDOWS CONFIGURATION

NEVER TURN OFF HARD DISKS NOR DISPLAY: Control Panel \Rightarrow All control panel items \Rightarrow Power Options \Rightarrow In your computer power plan, Change plan settings \Rightarrow (1) Turn off the Display: <u>NEVER</u>; Put the computer to sleep: <u>NEVER</u>; (2) Change advanced power settings \Rightarrow Turn off Hard Disk after: <u>NEVER</u>.

	C V V V V V V V V V V V V V V V V V V V	<u>م</u>
Select a power plan Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings. <u>Tell me more</u> about power plans	Change settings for the plan: HP Recommended Choose the sleep and display settings that you want your computer to use.	^
Preferred plans	Dim the display: Never Never	
Balanced (recommended) Change plan settings	Turn off the display: Never Never	
Automatically balances performance with energy consumption on capable hardware.	Put the computer to sleep: Never Never	Е
Power saver Change plan settings Saves energy by reducing your computer's performance where possible.	🔆 Adjust plan brightness:	
Hide additional plans Or Change plan settings	Change advanced power settings 2 Techrenachet Restore default settings for this plan	
Favors performance, but may use more energy.	Save changes Cancel	•



ì	Power Options Send Feedback 💎 💌				
	Advanced settings				
L	Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.				
	Balanced [Active]				
	 Hard disk Turn off hard disk after Setting: Never Desktop background settings Slide show Wireless Adapter Settings Sleep USB settings Power buttons and lid PCI Express Descence nower management 				
	<u>R</u> estore plan defaults				
L	OK Cancel Apply				



WHEN MSB-PALANGRE IS FINALLY INSTALLED: Right click on MSB-Palangre \Rightarrow Properties \Rightarrow (1) Compatibility tab \Rightarrow (2) Run this program as an administrator.

P	
	Open
MSB Pa	Troubleshoot compatibility
	Open file location
	Pin to Taskbar
	Pin to Start Menu
	Restore previous versions
	Send to
	Cut
	Сору
	Create shortcut
	Delete
	Rename
	Properties

Security	Details	Previoue Versions
General	Shortcut 1	Compatibility
If you have problen an earlier version o matches that earlie	ns with this program and i f Windows, select the co r version.	t worked correctly on mpatibility mode that
Help me choose	the settings	
- Compatibility mod	le	
🔲 Run this pro	gram in compatibility mod	e for:
Windows XP (Service Pack 3)	-
Settings		
Run in 256	colors	
Run in 640;	x 480 screen resolution	
Disable visu	al themes	
🔲 Disable desl	ktop composition	
Disable disp	lay scaling on high DPI s	ettings
D. 4		
Proviege Level		
Run this pro	gram as an administrator	J
Change settin	gs for all users	



4 STARTING THE SYSTEM

4.1 SWITCHING ON

Switch MIR5000 on:



Check the device has been successfully installed.



Microsoft Windows	×
You must resta changes	rt your computer to apply these
Before restarting, sa	ve any open files and close all programs.
	Restart Now Restart Later
Restart	ing is recommended.



4.1 DETECCIÓN DE PUERTOS EN MSB PALANGRE

Run MSB-Palangre, double-clicking on an in Windows Desktop and create a new set. When a new fishing journey starts, it is recommended creating a new set, so MSB Palangre will save all the data of the trip.

MSB Palangre v2.0	Select a set	
instruments	Last set	
Notice MSB Palangre is a radio tracking buoy software which incorporates CMAP cartographic charts. This program cannot replace official navigation paper charts required by the international maritime laws. MSB Palangre incorporates a CMAP low resolution general chart. To add detail charts	New set	
of other geographic areas, please contact your distributor or Marine Instruments at www.marineinstruments.es Using MSB Palangre implies the user knowledge and acceptance of this notice.	New set	
Cancel		



To detect the ports, click on Settings and, in the "General" tab, select MIR5000. Next, click on Detect. The GPS will take several seconds in being fixed.





4.2 CHECKING SETTINGS PARAMETERS

In Settings:





5 ENTERING BUOY DATA



Depending on the buoy model, its data can be entered automatically (M3P or later) or they must be entered by hand (M2P, MBP or older). For further information, consult User Manual UM023.

To enter buoy data, open the Buoy window.





Select the buoys transmission interval:



P

EVERY buoy must transmit with the same transmission interval (every 5, 10 or 15 minutes). If a buoy transmits with a different interval, it has to be programmed.



5.1.1 AUTOMATIC BUOY IDENTIFICATION

ONLY M3P BUOYS OR NEWER CAN BE IDENTIFIED AUTOMATICALLY BY MSB PALANGRE.



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Buoy data will be entered automatically. This process will last just a few minutes:







1

IN CASE THE WINDOW IS ALREADY FULL, OVERWRITE CONFIRMATION WILL BE REQUIRED. TO USE THE NEW BUOY, IT MUST BE REPROGRAMMED WITH OTHER DATA.

IF YOU ARE TRYING TO ENTER AN ALREADY EXISTING BUOY DATA IN ITS WINDOW, A NOTICE WILL BE DISPLAYED AND THE OPERATION WILL BE DISCARDED.



5.1.2 HOW TO DELETE BUOYS

To remove a buoy, select it and then click on Remove. A message of confirmation will be displayed:







Two buoys CANNOT transmit in the same window. In this case one of the buoys must be reprogrammed.



Before deploying the buoy, check that at least one position has been received in the software and that the buoy is displayed on the chart.



6 BUOY RECEPTION CHECK





The buoy takes about 15 minutes in sending its firts position. Then, it will be displayed on the chart.





7 LONGLINE CONFIGURATION

7.1 ACCESS AND CONFIGURATION

After having entered the buoys in MSB Palangre, you can configure the longlines according to the actual order the buoys are deployed, so that the line will be correctly displayed.













7.2 LONGLINE DISPLAYED ON THE CHART





This product guarantee conditions are available in Marine Instruments website.



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