



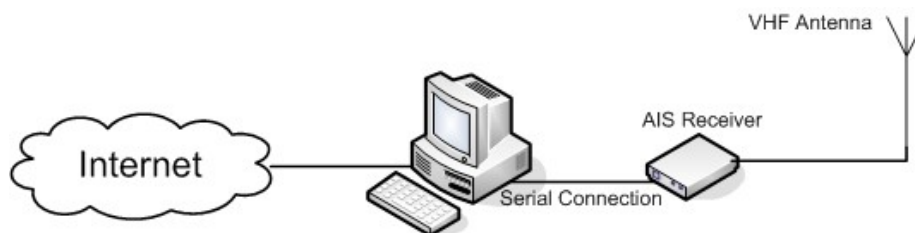
**MARINETRAFFIC.COM**

## **“AIS DECODER”**

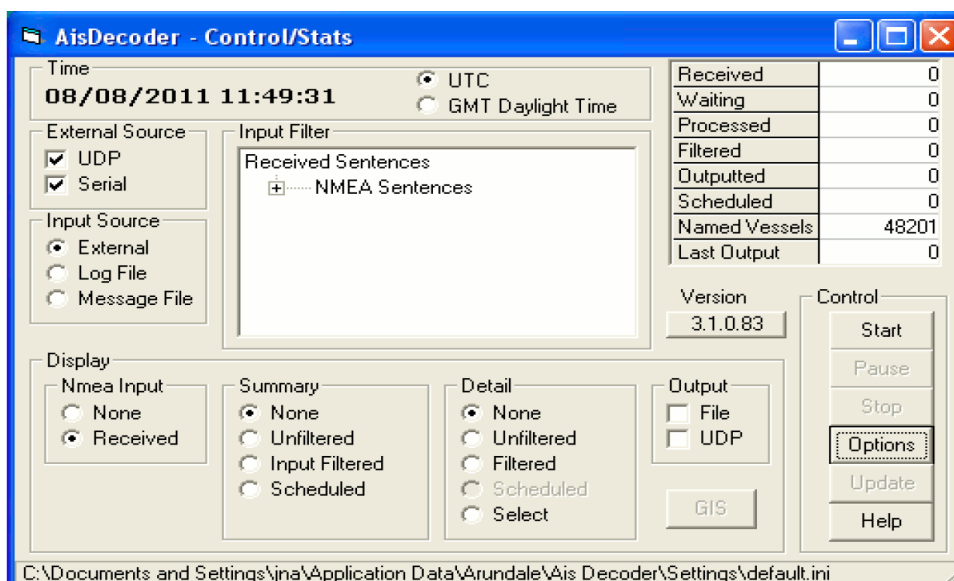
### **HOW TO SETUP FOR USE WITH AN AIS RECEIVER WITH SERIAL OUTPUT AND SHARE DATA WITH MARINETRAFFIC.COM**

If you own an AIS receiver with serial data output and you wish to share your data with Marinetraffic.com, you will need an AIS data forwarding utility such as AIS Decoder. You'll also need a dedicated PC with RS232 and ethernet ports, XP or newer OS and a stable internet connection.

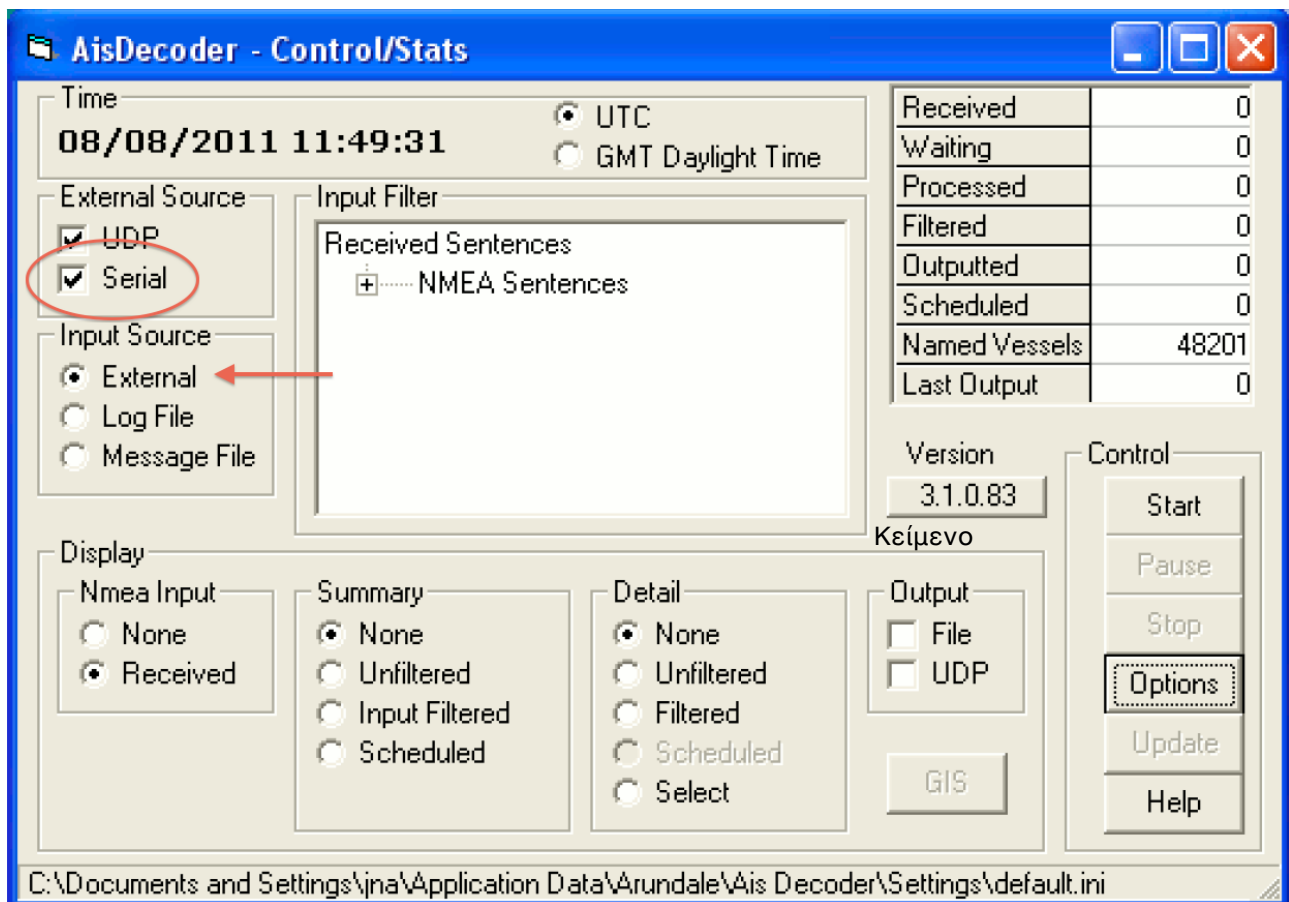
- First step is to connect your receiver to your PC using a standard serial cable. Make sure your COM port is configured as 38400,8,N,1 no flow control and your PC has access to the internet. Your equipment should be setup as shown below:



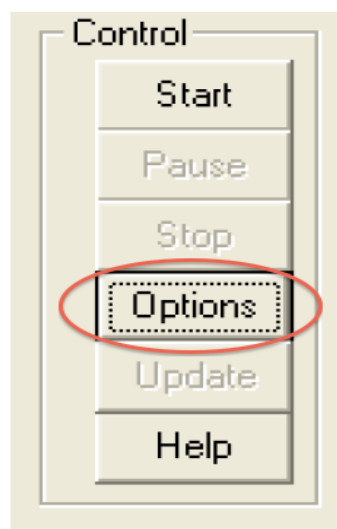
- Next download AIS Decoder from here:  
[http://web.arundale.co.uk/docs/ais/AisDecoder\\_setup\\_3.1.0.100.exe](http://web.arundale.co.uk/docs/ais/AisDecoder_setup_3.1.0.100.exe)
- Double click on the file you just downloaded and run the installer. Once it is finished you'll have a new folder (named “AIS Decoder”) in your Start--> Applications program group.
- Open that folder and double-click on the AIS Decoder icon.
- The application will start and you should see the main window:



- In the “Input source” field select “External” and in the “External source” field tick the “Serial” box as shown below:



- On the “Control” field click on the “Options” button:



- You will now enter the application configuration window. At the “Settings” field select the COM port your receiver is connected to and the standard AIS serial data speed (38400) :

Settings

☒ Check for Updates

Serial Input

COM1 Port

38400 Speed

Reject Input Filter

☒ Shore Stations

UDP Input

29421 Port

Note:

The “Reject Input Filter” option when checked will reject any MMSI's starting with 00.

### ⚠ IMPORTANT ⚠

If you haven't done this already, please visit our site (<http://new.marinetraffic.com/>), and register creating a new account. (click "members" > "join now")

When finished login to the site and click on your login name (top right corner) > "my account" > "my stations" > "add receiving station".

When finished you'll get a new station ID and a unique port number to send data to.

- Now on the “Output” field check the “UDP Output” checkbox, select NMEA as output method and enter Marinetrans.com IP and your unique port number:

UDP

☒ UDP Output

☒ NMEA ☒ +Time Stamp

☐ CSV ☐ Head ☐ Delimiter

☐ Tagged ☒ GIS Filtered

☐ Scheduled

☐ Range Filtered

UDP Output

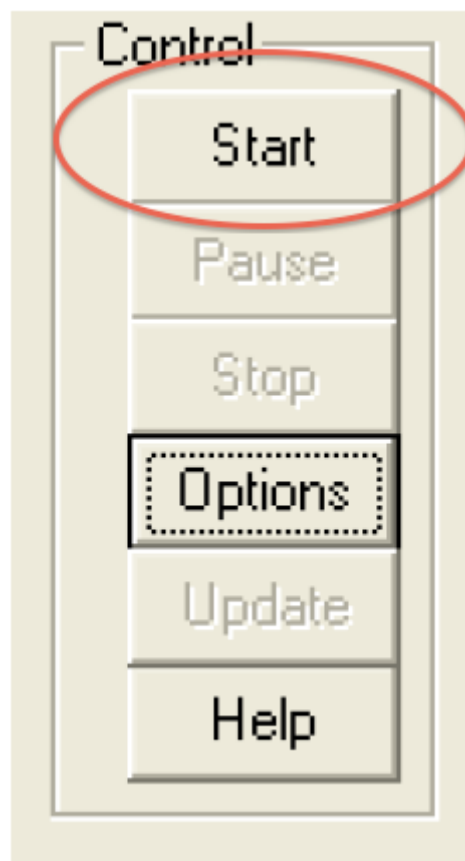
5.9.207.224 IP

5321 Port

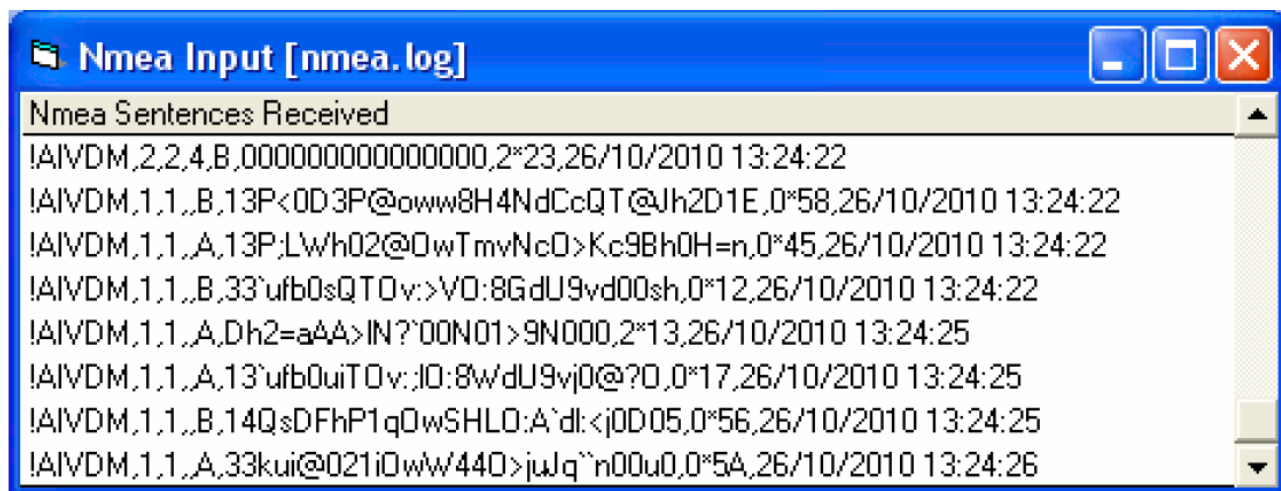
- When finished click on the “Save” button on the “All Settings” field to save your current configuration:



- Close the settings window and return to the main application window. To start sending data click on the “Start” button on the “Control” field:



Two additional windows will be displayed, the NMEA Input Window and the message Summary Window:



Summary								
Sentence	MMSI	Message Type	DAC	FI	ID	Vessel Name	Comments	
!AIVDM	220514000	1				ORASUND	Position Report Class A	
!AIVDM	255816000	3				J.AUGUSTUS ESSBERGER	Position Report Class A (Response to interroga	
!AIVDM	248693000	3				M/T ARAL	Position Report Class A (Response to interroga	
!AIVDM	246457000	1				WESTGARD	Position Report Class A	
!AIVDM	002320789	4					Base Station Report	
!AIVDM	002320709	4					Base Station Report	
!AIVDM	002320780	4					Base Station Report	
!AIVDM	255816000	3				J.AUGUSTUS ESSBERGER	Position Report Class A (Response to interroga	
!AIVDM	371793000	1				HARLEQUIN	Position Report Class A	
!AIVDM	235077712	5				UKD ORCA	Ship and Voyage Report (Msg ID = 0, part 1 of	
!AIVDM	235077712	5				UKD ORCA	Ship and Voyage Report (Msg ID = 0, part 2 of	
!AIVDM	235068575	1					Position Report Class A	
!AIVDM	235077712	1				UKD ORCA	Position Report Class A	
!AIVDM	235249000	3				PRIDE OF HULL	Position Report Class A (Response to interroga	
!AIVDM	244281000	1				DUTCH FAITH	Position Report Class A	
!AIVDM	249594000	1					Position Report Class A	
!AIVDM	220514000	1				ORASUND	Position Report Class A	
!AIVDM	304010331	1				BEATRICE	Position Report Class A	
!AIVDM	255816000	3				J.AUGUSTUS ESSBERGER	Position Report Class A (Response to interroga	

Click on any line (sentence) on the Summary Window to see the fully decoded data for the sentence:

Detail		
Description	Value	Value Description
Creation Time	26/10/2010 13:53:10	
Nmea Sentence	!AIVDM,2,2,7,A,EDSI3kIU;	
Sentence Type	!AIVDM	Ais Message
Ais Message		88 bits (15 6-bit words)
Fragments in this message	2	
Fragment No	2	
Sequential Message ID	7	
Radio Channel	A	
Payload	EDSI3kIU.85C300	424 bits (53 8-bit words)
Fill bits * CRC check	2*70	
Received Time	26/10/2010 13:52:44	
Vessel Name	PRIDE OF HULL	
AIS Message Type	5	Ship and Voyage Report
Repeat Indicator	0	Repeatable
MMSI	235249000	United Kingdom of Great Britain and Northern Ireland
AIS Version	0	Compliant with ITU-R M.1371-1
IMO Number	9208629	
Call Sign	ZNNK8	5 characters
Vessel Name	PRIDE OF HULL	13 characters
Ship Type	69	Passenger-no additional information
Dimension to Bow	18	meters
Dimension to Stern	197	meters
Length	215	meters, (calculated)
Dimension to Port	16	meters
Dimension to Starboard	16	meters
Beam	32	meters, (calculated)
Position Type Fix	1	GPS
ETA month	10	
ETA day	26	
ETA hour	04	
ETA minute	25	
Draught	6.1	meters
Destination	HULL-EUROPOORT-HULL	19 characters
DTE	0	Data Terminal Ready
Spare	0	1 bits

- Finally visit your station's statistics page and make sure your station status is "ONLINE" (it may take a few minutes for that to happen):

### Current Status & Statistics:

Status: **ONLINE**

Availability (3 months): 91.1% (1905 hours online / 2091 total hours)

Reception distance in nautical miles: Average: 5.09 / Max: 37.25

Records received in 1 hour: Distinct Vessels: 25 / Positions: 365

Area Covered: 2214 square km

[Coverage Map](#) (last 24 hours)

[Current Reception](#) (may be incomplete in case of overlapping reception by other stations)

[All Recent Receptions](#) (last 3 hours)

[Stations List...](#)

[Add your Station...](#)

That's it!!! You are now sharing your data with us. We sincerely appreciate your contribution to our site and your help to expand our services and coverage.

*Marine Traffic  
Tech Support Team*