SmarterChart















Quick Start Guide





SmarterChart 500 SERIES

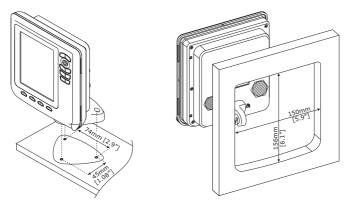
Chart Plotter Name	Description	SOFTWARE
CHART PLOTTER	5" Sunlight Readeable Color Display Internal GPS Receiver	S4xgNS5vc
SOUNDER COMBO	5" Sunlight Readeable Color Display Internal GPS Receiver & Internal Fish Finder	S4xgNS5vc
AIS COMBO	5" Sunlight Readeable Color Display Internal GPS Receiver & Internal AIS	S4xgNS5vc

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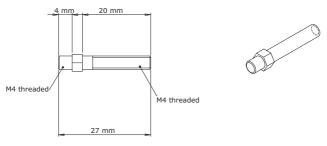


STEP 1 - Mounting the Chart Plotter

SmarterChart500 can be bracket or flush mounted



Bracket mounting (on the left) and Flush mounting (on the right)



Mounting Screws

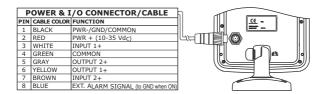


Available as an option is the custom SmarterChart500 waterproof Marine Pod

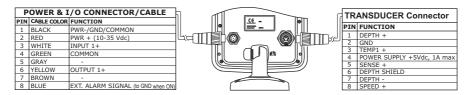
STEP 2 - Wiring and Inserting C-Card

All three models require a power connection to the boat's 12v or 24v DC supply. AIS Combo needs to be connected to a VHF or AIS antenna via the BNC connector. Sounder Combo needs to be connected to a suitable Transducer.

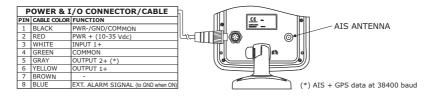
EXTERNAL WIRING FOR CHART PLOTTER



EXTERNAL WIRING FOR SOUNDER COMBO



EXTERNAL WIRING FOR AIS COMBO



REMOVING/FITTING A CHART CARTRIDGE (C-CARD)

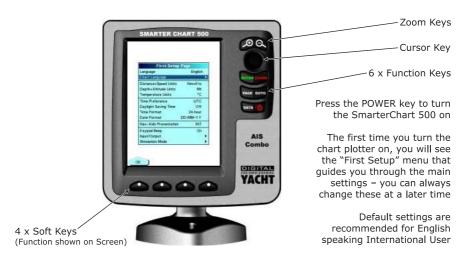








STEP 3 - Turning the Chart Plotter on for the First Time



DESCRIPTION OF INITIAL SETTINGS

Language : Sets the language that all chart plotter menus and windows will be

displayed in

Chart Language : Selects a sub-menu with two items: Language to set the language

used for all Chart Text and Chart Information and the Mode to define

how and when text is translated.

Distance+Speed Units: Selects the units for Distance and Speed (default setting is Nm+Kts).

Depth+Altitude Units : Selects the units for Depth and Altitude (default setting is Mt). **Temperature Units** : Selects the units for temperature (default setting is °C).

Time Reference : Selects between UTC or local time, by entering the Local Time offset

(default setting is UTC).

Daylight Saving Time : Sets the Daylight Saving Time ON/OFF (default setting is Off).

Time Format : Selects between 12 and 24 hour time display (default setting is 24

hour).

Date Format : Selects between Day-Month-Year or Month-Day-Year date format

(default setting is DD-MM-YY).

Nav-Aids Presentation: Selects between International or US chart symbols (default setting is

NT)

Keypad Beep : Enables/disables the audible beep when the chart plotter keypad is

pressed (default setting is On).

Input/Output : Allows the setup of the external NMEA ports for connecting other

equipment.

Simulation Mode : Allows the setup of a special simulation mode useful for training

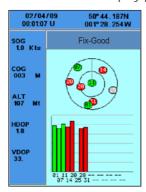
purposes.

Once the initial setting have been set, press the left hand ${}^{\bullet}O\kappa^{\bullet}$ Soft Key to store the values and finish powering up.

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STEP 4 - Getting Started

All models feature an internal high sensitivity 50 channel GPS that on power up will immediately start searching for satellites. When the chart plotter powers up the GPS Status window below is displayed. Pressing the **'CLEAR'** key will take you to the normal Chart display page.







GPS Status page (on the left) and Chart+Databoxes page (on the right)

Using the Cursor key and Zoom keys, it is possible to pan around the area covered by the charts, zooming in on marinas and areas or interest and zooming back out to get more of an overview.

As you move the cursor around the charts, a cursor window will be displayed that gives you the Lat/Lon of the cursor and the Distance and Bearing from the boat. At any time, pressing the **'CLEAR'** key will centre the chart back at the boat's position assuming a valid GPS fix is being received.

Placing the cursor on an object (symbol) on the chart, a Quick Info window will appear that gives you additional information about the object – in the case below a Special Purpose Buoy.



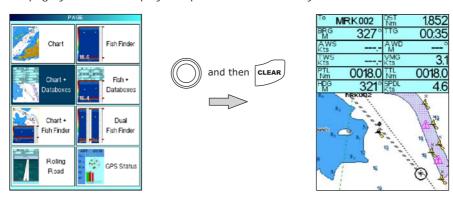


Example of Quick Info window on cartographic object

STEP 5 - A Guide to What The Keys Do

The 'PAGE' Key - the SmarterChart range of chart plotters can display lots of useful pages of information which are accessed by pressing the **'PAGE'** key. This displays the Page Selection window, which shows all available and unavailable pages. Unavailable pages are shown in grey and cannot be accessed due to particular data or optional accessories not being available.

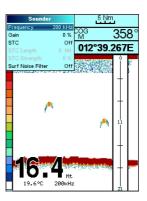
To select an available page, use the Cursor key to move the blue highlighter onto the page you wish to display and press the **'ENTER'** key.



Page Selection Menu (on the left) and Chart+ Databoxes page (on the right)

The 'ENTER' Key – in addition to being the confirmation key in menus, the **'ENTER'** key causes a context sensitive pop-up menu to be displayed in the various pages. The contents of this pop-up menu will vary depending upon what page you are on – two examples are shown below.

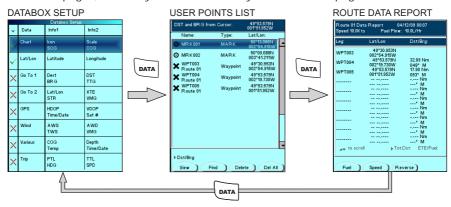




ENTER pop-up menu (on the left) and Fish Finder page with Sounder pop-up menu (on the right)

The 'CLEAR' Key – in addition to being the cancel/escape key in menus, the **'CLEAR'** key is used to re-centre the chart screen on the boat's position, to clear pop-up windows and jump back to the main page when you are in sub-pages or menus.

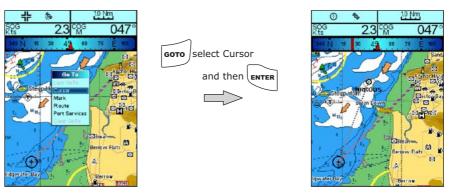
The 'DATA' Key – this key is used to access some of the User Data related subpages. User Data is defined as data that the chart plotter user has entered (Waypoints, Marks, Routes, etc.) or data coming in from other equipment via NMEA such as the data displayed in the configurable Databoxes. When you press the **'DATA'** key it cycles between the following sub-pages. Pressing the **'CLEAR'** key from any of these sub-pages, returns you to the currently selected main page.



User Data pages

The 'GOTO' Key – this key as the name suggests, allows you to tell the chart plotter where you want to go. The most simple method is to place the cursor on a point on the chart where you wish to sail to and then press the **'GOTO'** key and select **"Cursor"**. Advancing from this, you can store a Mark on the chart or create a Route and then press the **'GOTO'** key and select **"Mark"** or **"Route"**.

If you wish to stop the Go To function, simply press the 'GOTO' key and select "Clear Go To".



Go To pop-up window (on the left) and Go To point (on the right)

The 'POWER' Key – as well as turning the chart plotter on and off, the **'POWER'** key can take you straight to the LCD Adjustment Menu, where you can adjust Brightness, Contrast and choose a Colour Palette to best suit the lighting conditions. At any time whilst the chart plotter is turned on, a short press of the **'POWER'** key will display the LCD Adjustment Menu shown below.

Pressing and holding the 'POWER' key for three seconds turns the chart plotter off.



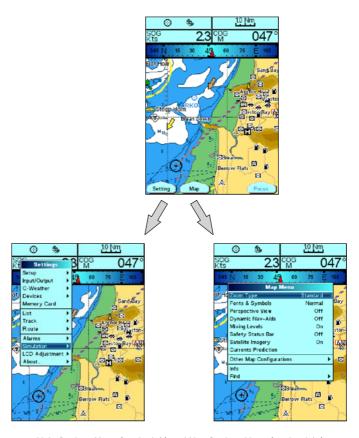
LCD Adjustment Menu

The Soft Keys – along the bottom of the LCD are four Soft Keys whose function changes depending upon what you are doing. Whenever you need to use these keys, a function label above the key will be displayed on the LCD to tell you what pressing the key will do. An example is shown above in the LCD Adjustment Menu where the four Soft Keys change the Brightness and Contrast of the display when this menu is shown.

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STEP 6 - Accessing the Main Settings Menu and Map Settings Menu

At any time when there are no labels above the four Soft Keys, pressing any one of the Soft Keys will cause the Main Settings Menu and Map Settings Menu options to appear. Pressing the relevant Soft Key will take you to the Setting or Map menus.



Main Settings Menu (on the left) and Map Settings Menu (on the right)

From these menus it is possible to select a setting you want to change by moving the Blue highlight bar up and down using the Cursor key and then pressing the **'ENTER'** key to access the Settings or sub-menu. Pressing the **'CLEAR'** key exits a setting without changing it or takes you back to the previous menu level.

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STEP 7 - Setting Up AIS

All of the SmarterChart 500 range can be connected to AIS Transponders and Receivers and the SC500 AIS Combo features it's own built-in AIS receiver. Once the AIS is connected, a series of powerful AIS functions and features become activated.

Below are examples of how the AIS Targets are displayed as orange triangles and how you can place the cursor on the AIS Target to query it's MMSI Number, Vessel Name and other important information.







AIS Targets (on the left) and AIS information (on the right)

To set the CPA and TCPA Alarms to warn of approaching vessels, press any one of the Soft Keys, then press the Soft Key labelled 'Setting' and highlight and select the "Devices" followed by "AIS" sub-menus.



Display sets the display range of AIS targets – default is 5NM but if you want to see targets even further away set this to 20NM. Set to OFF to not display any AIS data.

CPA (Closest Point of Approach) sets an alarm that will sound when an AIS target will pass closer to you than the value set i.e. if it will pass you at 0.2NM when CPA alarm is set to 0.5NM

TCPA (Time to CPA) sets an alarm that will sound when you are less than X minutes from the moment of CPA i.e. if you set this to 10 mins, the alarm will sound as soon as you are less than 10mins from the moment of CPA

AIS Menu

STEP 8 - Download the Full User Manual

This Quick Reference Guide is intended to get you up and running and using the most popular features of the SmarterChart range of chart plotters, as quickly as possible.

An electronic copy of the Full User Manual for the complete SmarterChart range is available on the Digital Yacht website – www.digitalyacht.co.uk

As you become more experienced in using your chart plotter, the Full User Manual will provide all of the detail you need to use the advanced and powerful features of these chart plotters.

If you require further Technical Support on any Digital Yacht products please e-mail: support@digitalyacht.co.uk or call +44 (0) 1179 554474.

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