## **Raymarine**

Fishfinder application with DownVision<sup>TM</sup>



• NEVER operate the sonar with the vessel out of the water.

- NEVER touch the transducer face whe the sonar is powered on.
- SWITCH OFF the sonar if divers are likely to be within 7.6 m (25 ft) of the transducer.

## Sonar overview

Various sonar technologies are available, all of which work on the same basic principles.

work on the same basic principles.

The sonar transducer sends pulses of sound waves into the water and measures the time it takes for the sound wave to travels to the bottom and back. The returning wave to travel to the bottom and back. The returning other objects in their path, for exampler reefs, wrecks, shoals or fish. The Sonar module interprets these signals and builds up a detailed underwater view which is displayed in the Fishfinder application.

0

DownVision is effective at lower vessel speeds. In deeper waters the CHIRP bandwidth is automatically restricted to improve bottom lock and the detection of moving objects (e.g. fish) in the wider water column.

The wide, thin beam produces clear target re The use of CHIRP processing and a higher of frequency provide a more detailed image, measier to identify bottom structures around with any reside.





CHIRP sonar produces a 25° conical shaped beam, the coverage of the conical beam is the water column directly beneath the vessel

CHIRP Sonar overview



CHIRP DownVision overview Switching between internal and external sonar DownVision produces a 60° side to side and 1.4° fore to aft beam. The coverage of the DownVision beam is a water column directly beneath and to the sides of the vessel. If you want to switch your active sonar module between internal and external follow the steps below.

1. Power off the active sonar module.

- Internal sonar module is turned off from the Fishfinder application menu: Menu →Set-up →Sounder Set-up →Internal Sounder.
- Wait for the No Sounder Source Available message to be displayed in the Fishfinder application.

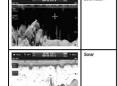
## The Fishfinder application includes various feat help you interpret what is beneath your vessel. The Fishfinder application features include:

- Dual channel CHIRP sonar: (Combining High resolution CHIRP Sonar and Ultra high resolution DownVision™ sonar).
- Display modes (Zoom, A-Scope or Bottom Lock).
  Adjustable range and zourn.
  Noise and gain filters to simplify the image.
- Pausing and adjusting the speed of the scrolling image.
- Using waypoints to mark a position.
- Determining depths and distances of targets

## Fishfinder views

On multifunction displays with DownVision™ capabili you can select which view you want to see or choose a splitscreen view displaying both Sonar and DownVision™ sonar at the same time.

- a scrolling image of the water column and bottom beneath your vessel including any bottom structure such as reefs and shipwrecks etc. target images indicating fish.
- bottom depth.



体育



Selecting a view when changing settings
In splitscreen views you can choose which view you want setting changes to be applied to or changes can be applied to both views at the same time.

Form the Fishfinder application with a splitscreen view displayed.

ct the relevant item from the menu.

possible to change this setting indepach view then an Adjust option is dis



Fishfinder application with DownVision<sup>TP</sup>

## 3. Select the view you want to make the ch

The fishfinder application includes a context menu which provides fishfinder information and shortcuts to menu items.



The context menu provides the data for the position of the cursor:

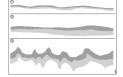
- Depth
- Place Market
- · Place Waypoin
- Erase Marker— (only available if a marker has been placed.)
- Adjust Range— (opens the Range mode menu.)

Accessing the context menu
You can access the context menu by following the steps below.

- Non-toucher auto-same tours and tour auto-same tours and tour and tour and pressing the Ok button.
   HybridTouch and Touch only displays:
   Selecting an object or target on-scening.
   Selecting and bolet or target on-screen.
   Selecting and holding on a location on-scr

## The sonar image

Interpreting the bottom using sona It is important to understand how to correctly into the bottom structure represented on-screen. The bottom usually produces a strong echo. The following images show how different bottom conditions are represented on-screen:



# A hard bottom (sand) produces a thin line.

The dark layers indicate a good echo; the lighter areas indicate weaker echoes. This could mean that the upper layer is soft and therefore allowing sound waves to pass to the more solid layer below.

to pass to the more soilar layer below.
It is also possible that the sound waves are making two
complete trips – hitting the bottom, bouncing off the
vessel, then reflecting off the bottom again. This can
happen if the water is shallow or the bottom is hard.

## Factors influencing the sonar display

Vessel speed
The shape of the target changes along with your spe
Slower speeds return flatter, more horizontal marks.
Higher speeds cause the target to thicken and arch
slightly, until at fast speeds the mark resembles a
doubte vertical line.

Target depth
The closer the target to the surface, the larger the mark on screen.

on screen.

The depth of individual targets can be displayed by switching on the Target Depth ID in the fishfinder men Menu—Presentation. The number of target depths by the fish alarm sensitivity leve

# Fishfinder display modes

As water depth increases signal strength decreases resulting in a lighter onscreen image of the bottom.

No minus a symmetric resulting in a symmetric resulting in a symmetric resulting in a symmetric result result in a symmetric result res

Size deviwen dimerent oreads or rish.

Clutter / Background noise

The fishfinder picture may be impaired by echoes received from floating or submerged debris, air bu or even the vessels movement. This is known a 'Noise' or 'Clutter' and is controlled by the Sensiti Settings. The system can automatically control is settings according to depth and water conditions, can also adjust the settings manually if required.

Recovering lost bottom

If the seabed floor (bottom) is lost then below to recover the bottom depth.

Fishfinder application with DownVision™

- Selecting a fishfinder display mode From the fishfinder application:
  1. Select Menu.
  2. Select Display Mode.
  3. With a splitscreen view displayed, select Adjut.
  4. Select Select Display Mode menu item.
  5. Select the Select Mode menu item.
  6. Select the Select Mode menu item.

- Zoom
- A-Scope (Not available in DownVision views) Bottom Lock
- Fishfinder zoom mode
- The zoom display mode magnities a region of the fishfinder screen to display more detail.
- This zoom option enables you to: Replace the standard fishfinder image with the zoomed image, or display the zoomed image alongside the standard fishfinder image.
- Set the zoom factor to a predefined level, or adjust it manually
- Reposition the zoomed portion of the image to a different point in the display.
- When the range increases, the area shown in the zoom window also increases.

## Zoom split

elow to recover the bottom depth, room the fishfinder application:

Ensure your vessel is in clear undisturbed water.

If range is set to Manual, adjust the range to the known, charted depth of your location. or

If range is set to Auto then switch the range to manual and adjust the range to the known, chart depth of your location. Once bottom has been regained you can switch range mode back to Auto.

Selecting split screen in zoom mode

mode selected.

1. Select Menu.
2. Select Display Mode,
3. Select Zoom so that Split is highlighted.
Selecting Zoom will switch between Split and Full.
Adjusting the flishfinder zoom factor
When the zoom function is active your part of zoom
Split), you can either select a predefined zoom factor
or adjust it manually; From the fishfinder application, with Zoom preset

- Select Menu.
- Select Display Mode,
  Select Zoom Factor.
  Select a preset Zoom Factor (x2, x3, x4) or select Manual Once selection is made you will be returned to the Display Mode menu.

- Uisplay Mode menu.
  If Manual is chosen select Manual Zoom
  The manual zoom factor dialog is displayed.
  Adjust the setting to the required value.
  Select Back or use the Ok button to confirm the setting.

Adjusting the position of the fishfinder zoomed area

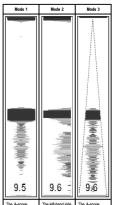
- When the zoom function is selected, the system automatically selects the zoom position so that the bottom details are always in the lower half of the disple if required you can reposition the portion of the image to be zoomed so that an alternative area is displayed.

63., Water depth

- Select Display Mode.
   Select Zoom Position.
   The zoom position menu is displ
   Select Zoom Position .
- Selecting the zoom position displays the zoom position slider bar control.
- Adjust the setting to the required value, or select Auto to switch to automatic.
- Fishfinder A-Scope mode

The A-Scope mode enables you to view a live (rather than historical) image of the seabed and fish directly

below your vessel. The standard fishfinder display shows a historical record of fishfinder echoes. If required, you can display at live image of the bottom structure and the hast directly at live image of the bottom structure and the hast directly with of the bottom was a structure of the bottom was with of the bottom was a live in the ASCope provides a more precise and easier to interpret indication of the target strength.



Selecting A-Scope mode
From the fishfinder application, with the A
display mode selected:

1. Select Menu.
2. Select Display Mode.
3. Select A-Scope Mode.
4. Select A-Scope to display a list of A-Sic
5. Select the required A-Scope mode.

Bottom Lock
The Bottom Lock function applies a filter to flatten the image of the seabed and make any objects on or just above it easier to see. This feature is particularly useful for finding fish that feed close to the bottom.

Adjusting the range of the bottom lock image allot to view more bottom details. You can also reposithe image on screen to anywhere between the bi-of the window (0%) and the middle of the window by using the Bottom Shift control.



Adjusting the bottom lock range/position
From the fishfinder application, with bottom lock display

- mode selected:

  1. Select Betun.
  2. Select Display Mode.
  3. Select Bottom Lock to switch between Full screen and Split screen.
  4. Select B-Lock Range.
  4. Select B-Lock Range will display the B-Lock Range numeric adjust dialog.

  Adjust the certification of the Recovering and the Selection of the Range will display the B-Lock Range numeric adjust dialog.

- Changing the depth range
- Selecting Bottom Lock Shift will display the B-Lock Shift numeric adjust dialog. shift numeric adjust dialog.

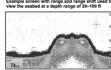
  Adjust the setting to the required value.

  Select Back or use the Ok button to confirm the setting.

Fishfinder range

Range
The Range function enables you to define the range of depth that you see in the fishfinder display. In Auto Range, the fishfinder application automatically adjusts the range to ensure the water column and bottom are always displayed.

Range Shift The Range Shift function enables you to define which area of the water column you want displayed.



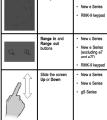
- automatic adjustment whereby the display automatically shows the shallowest required range.
- manual adjustment of the depth range, up to the maximum depth. From the application menu:

  1. Select Range.

  2. Select Range: to switch between Auto and Man.

  3. With manual mode selected you can now adjust the depth range.

When viewing a splitscreen view the range will change for both views at the same time. Range in and out
The method of ranging in and out of the fishfinder application is dependent upon your multifunction disp



New c Series

Using range shift The default setting adjusts the display to keep the bottom in the lower half of the display window.

Alternatively you can shift the image within the current range. Changes to the range shift are reflected in all windows.

- From the application menu, with Range set to Manual
- Select Range.
   Select Range Shift.
   The range shift dialog is display
   Adjust the setting to the require

# Adjust the setting to the required value. Select Back or press the Ok button to confirm the setting and close the range shift dialog.

Fishfinder sensitivity settings The Sensitivity settings menu provides access to features and functions which enhance what is displayed access to restrict the sensitivity options include:

- · Noise Filter Color Threshold
- The gain settings after the way the sonar module processes background noise (also called clutter). Adjusting the gain settings can improve the sonar image, however for optimum performance in most conditions, we recommend that you use the auto settings.

The gain adjusts the return threshold (echo strength) above which the fishfinder will show an object on the screen.

There are two gain modes:

• Auto

In Auto mode, the sonar module automatic the gain setting to suit current conditions.

The new values remain set even when you switch off the display







un-screen controls
Thoulsesem multifishelber displays provide ensenem access to the gain controls.

1. Select the on-screen Gain control located on the left hand side of the fishfinder application.

2. Select the Auto box to switch between Auto and Manual gain. Manual gain.

With Auto deselected, select and hold the Slide and move Left to decrease value or Right to increase value. Fishfinder color gain

Adjusting fishfinder gain manually using on-screen controls

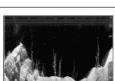
- Setting a low value produces a wide band for the weakest color, but a small signal band for the other





CHIRP technology
CHIRP sonars use a swept frequency 'CHIRP' signal which can distinguish between multiple close targets this enables the sonar to display multiple targets inst of large combined targets that you would see when using traditional non-CHIRP sonar.

- Bottom detection even through bait balls and thermoclines.



## Raymarine sonar modules

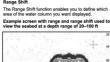
the technology used.	
CP450C	CHIRP — ClearPulse™
CP100	CHIRP — DownVision™
Dragonfly (internal sonar)	CHIRP — DownVision™
a68 / a78 (internal sonar)	CHIRP — DownVision™
CP300	ClearPulse™
a67 / a67 Wi-Fi / a77 / a77 Wi-Fi (internal sonar)	ClearPulse <sup>TM</sup>

Note: The Fishfinder application menu options and settings will differ depending on the type of sonar module in use.

- External sonar modules should be turned off by disconnecting the network connection.
- Fishfinder with DownVision™ features
- · Fishfinder alarms (fish, depth or water temperature)

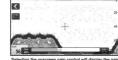
# Select Back or use the Ok button to confirm the setting. Select B-Lock Shift to reposition the image onscreen.

The Range and Range Shift functions enable you to change the range of depth displayed by the fishfinder



# Selecting the view for gain adjustments To select a view to apply gain adjustments to follow the steps below. From the Antiforder appointation Select Aguert Select Sonar, DownVision or Both.

- S. Select Sorter, commission or don't.
  Adjusting fishinger gain using the menu
  The fishinder gain setting can be accessed from the
  From the fishinder application:
  1. Select Menu.
  2. Select Sensitivity Settings.
  3. Select Calin.
  The Cain adjust dialog is displayed
  4. Adjust the gain control to the required setting, or
  5. Select Auto. A tick is displayed in the **Auto** box to signify automatic gain is enabled.



Settling a high value gives a wide band for the strongest color, but a small signal band for the other

Color gain sets the lower limit for the strongest echo shade. All echoes with a signal strength above this value are displayed in the lightest shade. Those with a weaker value are divided equally between the remaining shades.

- Setting a low value produces a wide band for the darkest shade, but a small signal band for the other chades
- Setting a high value gives a wide band for the lightes shade, but a small signal band for the other shades.

Color gain modes
There are two color gain modes:

- Manual You can set the color gain manually, between a value of 0% to 100%.

Selecting the view for color gain adjustme To select a view to apply color gain adjustme follow the steps below.

- follow the steps below.

  From the fishfinder application:

  1. Select Menu.

  2. Select Sensitivity Settings.

  3. Select Color Gain.

  4. Select Adjust.

  5. Select Sonar, DownVision or Both.
- Adjusting the fishfinder color gain From the fishfinder application:

- From the flathfinder application:
  1. Select Mem.
  2. Select Color Gain.
  The color gain slider bar control is displayed.
  4. Adjust the control to the required value.
  5. Select Back to confirm setting and close slider bar, or
- Fishfinder application with DownVision™

· On · Off

· On · Off

• On

Controls whether the depth of identified targets are displayed. The level of targets displayed is directly linked to the level of Fish Alarm sensitivity.

Note: Target depth IDs are not shown in the DownVision view

Controls whethe horizontal lines indicating depth are displayed.

When set to On, this option displays a white line along the contour of

the contour of the seabed. This helps to distinguish obj close to the

Note: The White line is not shown in the DownVision view

. Select **Auto** to enable automatic color gain The new values remain set even when you switch off the display and are applied to all fishfinder windows.

The Noise Filter reduces the amount of clutter display onscreen by varying the gain throughout the column of water. This function is useful for reducing the appearance of noise.

The Noise Filter can be set to automatic or adjusted manually:

- Automatic In Auto mode the Noise Filter is set to 20%.
- Manual You can adjust the Noise Filter manually, between a value of 0% to 100%.
- A low value decreases the depth at which the filter is applied. A high value increases the depth at which the filter ie applied.
- The new values remain set even when you switch off the display.

## Adjusting the Noise Filter

When set to On, this option displays a solid color fill for the

Note: Bottom fill is not shown in the DownVision view

palettes are available to suit different conditions and your personal preference.

Various color palettes are available to suit different conditions and your personal preference.

DVision Colors

On

Classic White

Inverse Greyscale Copper

Night Vis

Copper Inv. Coppe

Slate Grey

Inv. Slate Gr

- Adjusting the Noise Filter
  From the Finithire application:

  1. Select Menu.
  2. Select Sensitivity Settings.
  3. Select Noise Filter.
  4. With a spilliseron view displayed, select Adjust.
  5. Select Sonar, DewnYssion or Both.
  5. Select Sonar DewnYssion or Both.
  7. Select Sonar Efflex
  The Noise filter sider har control is displayed.
  4. Adjust the Noise Filter to the required value, or
  8. Select the Auto check box to switch to Auto mode.
  8. Select the Auto check box to switch to Auto mode. A tick is displayed in the Auto check box to signify auto is enabled

Note: The Noise filter can also be adjusted by selecting the onscreen Noise Filter control.

## Fishfinder color threshold

The color threshold setting determines the signal strength below which targets are not shown. Some uses different colors to determine signal strengths with the colors to the strengths of the colors to the strength of the colors of the strength colors of the colors of

- (Lownwison\*\*) larges being displayed.

  Adjusting the fishfinder color threshold

  From the fishfinder application:

  1. Select Menu,
  2. Select Sensitivity Settings,
  3. Select Color Threshold,
  Selecting color threshold displays the numeric
  adjust control.

  Adjust me color threshold to the required series.

## Fishfinder presentation options

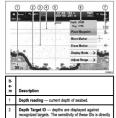
The **Presentation** menu gives you access to features and functions which provide additional on-screen functionality.



## Depth and distance with the fishfinder

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White Line



Depth Target ID — depths are displayed against recognized targets. The sensitivity of these IDs is direct linked to the Fish Alarm sensitivity; the greater the fish alarm sensitivity, the greater the number of labelled returns.

Depth lines — horizontal dashed lines drawn at regularity intervals to indicate the depth from the surface.

Cursor Depth — this is the depth of the cursor position Cursor Range — this is the range from your vessel to the cursor position.

Fishfinder application with DownVision™

## Measuring depth and distance with VRM

Measuring depth and distance with VRM you can use a Variable Range Marker (YRM) to determine an object's depth and distance behind your vessel. These markers consist of a horizontal (depth) line and a vertical (distance) line, each of which are labelled with the appropriate measurement. From the fatifieder application: Select Seroll so that Pause is highlighted (This may make it easier to position the marker). Selecting Scroll will switch the scroll between Pause and Pause.

- and Resume.

  Open the fishfinder context menu.

  Select Place Marker.

  Select the location you want to place the m

The fishfinder marker includes a context menu which provides marker information and menu items.



Note: Once placed you can move the marker by selecting Move Marker from the fishfinder context menu.

Fishfinder marker context menu

Fishfinder X

## The context menu provides data for the position of the marker:

- Depth
   Range
- The context menu also provides the following menu items:

- Display Mode
- Adjust Range

- Accessing the context menu
  You can access the context menu by following the steps below.

  Non-touchscreen and HybridTouch displays:
  Selecting a location, object or target on-screen and pressing the Oik button.

  HybridTouch and Touch only displays:
  Selecting an object or target on-screen.
  Selecting and holding on a location on-screen.

## Fishfinder scrolling

The fishfinder image scrolls from right to left. You can pause the scrolling or adjust the scroll speed, to ease placing of waypoints or VRMs onscreen.

Scroll speed
You can adjust the speed at which the fishfinder image scrolls. A faster speed provides more detail which may be useful when you are looking for fish. If you select a slower speed the information remains on the display for longer.

Scroll pause
You can pause the display to see a 'snapshot' of the fishfinder image. When the image is paused scrolling stops but the depth indication continues to be updated.

## Sounder set-up menu options

This section describes the settings you can change using the sounder set up menu: (Menu -> Set-up -> Sounder Set-up). The set up menu contains settings that are likely to be changed infrequently.

Menu Item	Description	Options
Internal Sounder	Switch the built in sonar on and off, for use when you have more than one multifunction display with internal sonar.	• On
	Note: This option is only available on multifunction displays that have a built-in sonar module.	
	Note: Must be set to Off if an external sonar is connected.	
Ping Rate Limit	Provides a speed limiter; it is useful to adjust the ping rate to suit local conditions. For example, the ping rate may be too fast when there is a hard bottom in shallow water. The internal sonar reverts to 26 pings per second when the sonar module is powered off.	Internal sonar: 5 — 50 pings per second     CHIRP sonar: 5 — 80 pings per second
	Note: Ping rate limit is disabled if Ping rate is set to hyper in the presentation menu.	
Ping Enable	The sonar ping is normally enabled. It can be disabled. This is useful when other equipment is being tested, or if someone is diving beneath the boat. This setting reverts to Enabled when the sonar module is powered off.	• On • Off
Interference rejection	Removes spikes caused by other fishfinder-equipped vessels.	• Auto
	Note: Interference rejection will be disabled in Hyper Ping mode	• Low
		Medium     High
2nd Echo IR	Adjusts the ping rate in small increments, according to the 2nd echo level. This results in better sensitivity of the image.	• Off
	Note: 2nd Echo IR will be disabled in Hyper Ping mode	• High

Fishfinder application with DownVision™

Menu Item	Description	Options
Sonar reset	Restore all settings on the sonar module to factory default. When performing a sonar Reset, it is normal to briefly lose connection with the sonar module.	• Yes
	sonal Reset, it is normal to briefly tose connection with the sonal module.	• No
Trip Counter Reset	Resets the Trip Counter of the sonar module	• Yes
		• No

## Transducer set-up menu options

The Transducer Set-up menu should be used		
Menu Item	Description	Options
Transducer	Select the appropriate transducer type from those displayed. Some transducers may be detected by the system automatically.	Options available are dependent on the sonar module connected.
Speed Transducer	Select the appropriate speed transducer from those available. This option is only available if you are not using a combined Depth/Speed or Depth/Speed/Temperature transducer.	Options available are dependent on the sonar module connected.
Depth Offset	Offset represents the depth of the transducer relative to:  Waterline = 0.0 ft and above.  Keel = 0.1 ft and below.	• -9.8 to +9.8 feet — or equivalent units
Speed Offset	Offset applied to the speed log.	- 0 to 100%
Temperature Offset	Offset applied to the temperature transducer value.	-9.9 to +9.9 *F — or equivalent units

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## Fishfinder Transducer Calibration

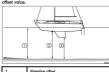
Fishfinder Transducer Calibration

Vour latifuder transducer must be calibrated correctly to achieve accurate depth readings.

The multifunction despits receives the image from a sonar module which processes sonar signals from a transducer are outpoped with a speed paddie wheel transducers are dead in the sonar accurate readings, it may be necessary to calibrate the transducers by applying offlets to begin, speed and temperature. As these settings are had in the sonar system-wide.

## Depth Offset

Depths are measured from the transducer to the sea bed, but you can apply an offset value to the depth data, so that the displayed depth reading represents the depth to the sea bed from either the keel or the waterline.



Fishfinder application with DownVision<sup>TM</sup>

Transducer / Zero offse

# If an offset is not applied, displayed depth readings represent the distance from the transducer to the sea bed.

- Setting the depth offset

  - Setting the depth offset
    From the fishinder application:

    1. Select Menu.

    2. Select Set-up.

    3. Select Transducer Set-up.

    4. Select Depth Offset.
    The depth offset of the required value

    5. Adjust the offset to the required value

## Setting the speed offset

- From the fishfinder application:

  Select Menu.

  Select Set-up.

  Select Stransducer Set-up.

  Select Speed Offset.

  The speed offset numeric adjust control.

  Adjust the offset to the required value
  - Setting the Temperature offset

    1. Select Menu.
    2. Select Set-up.
    3. Select Transducer Set-up.
    4. Celect Temperature Offset.
    The Impromise offset numeric adjust control is displayed.
    5. Adjust the offset to the required value.

## Fishfinder alarms

The display can be configured to provide a number of fishfinder alarms. The following fishfinder alarms can be set when a sonar module is detected, or when the simulator is on:

- Fish alarm sounds when a target meets the specified sensitivity level and, is within the depth limits (if enabled).
- Fishfinder Deep alarm sounds when the sonar module detects that the depth is greater than the deep limit.
- Fishfinder Shallow alarm sounds when the sonar module detects that the depth is less than the shallow limit.

- limit.

  Setting up fish alarms

  From the Alarms menu homescreen→ Set-up→

  1. Select Flah.

  The Fish alarms menu is displayed.

  2. Select Flah so that On is highlighted.

  3. Select Flah so that On is highlighted.

  5. Select Flah Sensitivity.

  The fish sensitivity numeric adjust control is

  Adjust the fish sensitivity the require value.

  The greater the fish alarm sensitivity, the greater the number of tracept image depth displayed.

  5. Select Flah Depth Limits so that On is highlighted.

  The shallow and deep fish limit settings will be adverted if the news.

  The shallow the limit numeric adjust control is displayed.

  7. Adjust the value to the require setting.
- displayed.

  7. Adjust the value to the require setting.

  8. Gelect ON to confirm the new value and close the numeric adjust control.

  9. Select Deep Fish Limit.

  The deep fish infirm numeric adjust control is displayed.

  10. Adjust the value to the require setting.

  11. Select ON to confirm the new value and close the numeric adjust control.

Setting up fishfinder deep alarm
From the Alarms menu homescreen
Alarms:

- Adjusting the fishfinder scrolling speed From the fishfinder application:

  1. Select Menu;

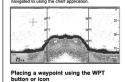
  2. Gelect Presentation:

  3. Select Seroil Speed frumeric adjust control is displayed.

  The Scroll speed frumeric selfing.

  5. Select Ok to confirm and close the numeric adjust control control.

Fishfinder waypoints



# Pausing the fishfinder scrolling image From the fishfinder application: 1. Select Menu, 2. Select Scroll so that Pause is highlighted. Selecting Scroll will switch between Scroll Pause/Resume.

Placing a waypoint on the fishfinder display enables you to mark a position so that you can return to it later. When a waypoint is placed, its details are added to the waypoint list and a vertical line labelled WPT is displayed on-screen. The waypoints can then be navigated to using the chart application.

- Select WPT,
   The waypoint menu is displayed.
   Whilst the waypoint menu is open: Select WPT again to place a waypoint at your vessels position, or

## Select the appropriate option: Place Waypoint At Vessel, Place Waypoint At Cursor or Place Waypoint At Lat/lon.

## Placing a Waypoint using the context menu

You can place a waypoint in the fishfinder applicusing the context menu.

1. Open the fishfinder context menu.

2. Select Place Waypoint. Select Place Waypoint.
The Waypoint is placed at the cursors location and a confirmation pop-up is displayed.

Select Ok to confirm waypoint placement, or Select Edit to edit the new waypoints details.

Note: The Deep Limit cannot be set to less than the Shallow Limit.

- From the Alarms menu homescreen→ Set-up→ Alarms:

The reset function restores the unit to its factory default values.

Note: Performing a factory reset will clear speed and temperature calibration settings and the depth offset.

Alarms:

1. Select Fishfinder Shallow.

2. Select Shallow so that On is highlight Selecting Shallow will switch between 3. Select Shallow Limit. 3. Select Sh

Note: The Shallow Limit cannot be set to greater than the Deep Limit.

- 2. Select Menu from the side menu.
  3. Select Set-up.
  4. Select Sounder Set-up.
  5. Select Sonar reset.
  6. Select Yes to confirm.
  The unit will now be reset to factory default se
- Select Flathflader Deep.
   Select Deep so that On is highlighted.
   Selecting Deep will wantch between On and Off.
   Selecting Deep will wantch between On and Off.
   Select Usep Limit,
   The deep init immeric adjust control is displayed.
   Adjust the setting to the required value.
   Select Ok so confirm the new value and close the numeric adjust control.
- Setting up fishfinder shallow alarm

osiect Shailow Limit.
 The shallow limit numeric adjust control is displayed.
 Adjust the setting to the required value.
 Select Ok to confirm the new value and close the numeric adjust control.

## Resetting the sonar

Using a compatible Raymarine multifund go to the Fishfinder application page.