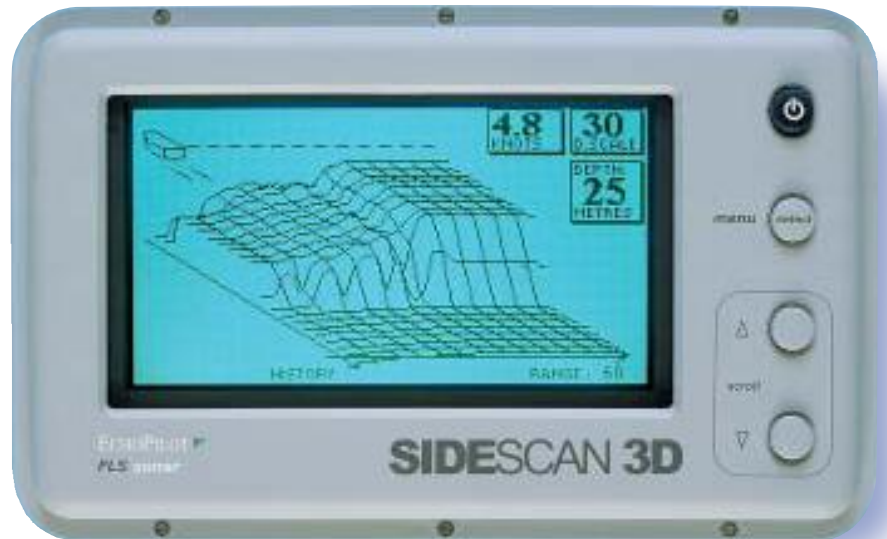
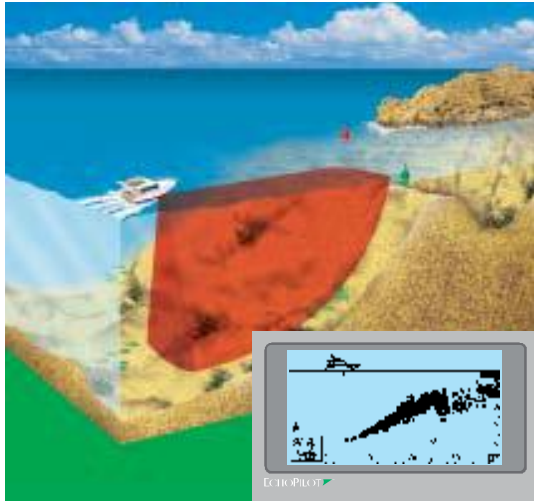


SIDESCAN 3D Forward and Sidescanning Sonar and GPS Display

- GPS Display
- NMEA compatible
- Repeater Option
- 150m range (ahead)
- 75m range (down)
- 150m 3D sidescan display
- Digital depth
- Speed option
- Forward alarm
- Flush mount case
- Professional Transducer



Rocks off Yarmouth I.O.W.



Our Echopilot Sidescan 3D sonar is a natural progression from the FLS range, providing an even more detailed view of what is beneath and around the boat. The instrument is based on the FLS hardware and uses the same transducer and display. Orienting the FLS transducer to look sideways out from the boat means that time becomes the third dimension and as the vessel moves ahead a three dimensional view of the seabed is built up. A second transducer and our changeover switch may be fitted enabling forward or sidescan mode to be speedily selected, or if preferred, a single transducer can be turned to look in the desired direction.

The Sidescan 3D covers an area of up to 150 metres away from the boat and has a maximum depth capability of 75 metres. At 5 knots an amazing 11250 square metres of seabed can be displayed on a lattice of 240 points. The Sidescan 3D is unique in its ability to provide a real time 3D picture of the seabed over such a large area. The 240 point lattice is fine enough to show a detailed view of the terrain below the boat

The Echopilot Sidescan 3D incorporates all the features of the FLS Gold. It is a 150 metre forward view FLS with a choice of 6 ranges from 20 metres to 150 metres ahead and from 10 metres to 75 metres down. The forward alarm function alarms a section of the screen 2,4,6, or 8 metres

below the transducer right up to 150 metres ahead. Units can be changed to feet in the menu. The optional repeater unit is fully functional and housed in the same case as the master instrument.

The NMEA interface allows the instrument to accept and display GPS data and also to accept or output speed and depth to other instruments. If speed, trip and log are required just fit our log transducer, available in paddle wheel or ultrasonic versions. The latter has no moving parts to foul or wear. The digital depth is an average of the first one third of the screen- an advantage over ordinary digital echo sounders, which just display historical information. The Sidescan 3D is water proof from the front and is designed for flush mounting.

The Echopilot Sidescan 3D is available only with the Professional transducer. The bronze skin fitting has 3 inches of useable thread allowing the transducer to be fitted vertically in both planes on almost all hull types.

For the first time the leisure boat owner can enjoy features more often associated with large and expensive hydrographic and commercial sonar. The Echopilot Sidescan 3D may be used for feature and wreck location, pilotage and seabed mapping. It is a benefit to yachtsmen, motor boaters, divers and fishermen and harbour authorities too. Existing owners of FLS Gold instruments can upgrade their software to enjoy the extra Sidescan features.

SIDESCAN 3D Forward and Sidescanning Sonar and GPS Display

One final thing - remember you can not use two sounders or sonar at the same frequency on the same boat (or near another boat sometimes). One will transmit, the other will pick up its echo from the sea bed and both will be confused.

All EchoPilot vertical sounders run at 150KHz. All EchoPilot Forward Looking

Sonars are 200KHz so they work well together. Brookes and Gatehouse use 183KHz (again compatible) but Raytheon use 200KHz so are not.

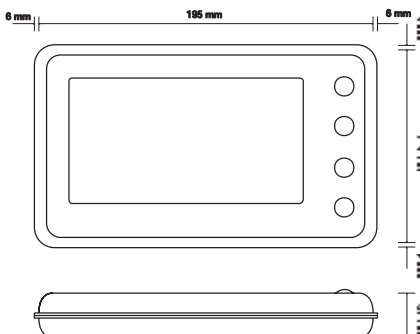
It is essential to fit a switch to disable any other sounder working at 200KHz without an on/off switch. And when using the other sounder switch the EchoPilot sonar off!

If you need any more help or advice phone or E-mail our factory or one of our distributors or dealers - we are here to help you.

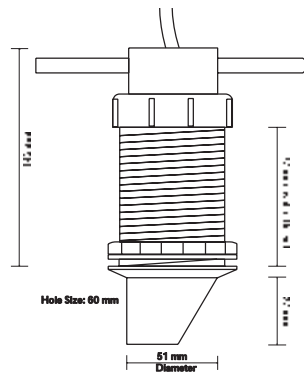
Technical specification

Voltage	Consumption	Frequency	NMEA out	NMEA in	GPS in
12 or 24v	200ma Max	200 KHz	DBT VHW VLW	DBT VHW VLW	GGA etc

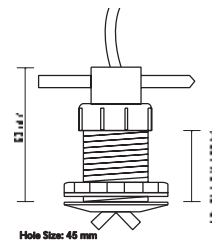
Dimensions



Transducers



Log Transducer



Standard Kit

Display
Power cable
NMEA/Repeater out cable
Mounting stirrup kit
Transducer (professional)
Thru-hull fittings & blanking cap
Shipping weight: EchoPilot Sidescan 3D 4.2kg

Options

Repeater & 8m cable
Speed kit
Spare transducer (professional)

EchoPilot have a policy of continuous improvement and reserve the right to change specification

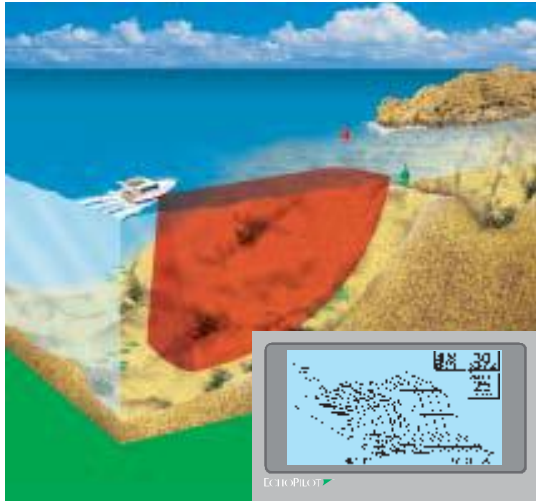


WRECKFINDER

- Wreck identification software
- GPS display
- NMEA compatible
- 150m range (ahead)
- 75m range (down)
- 150m 3D sidescan display
- Digital depth
- Speed option
- Forward alarm
- Flush mount case
- Professional Transducer



Wreck in Western Solent



Wrecks are of interest to many seafarers, divers and fishermen especially. There are tens of thousands of wrecks around the English coast alone. Anyone who has tried to locate a wreck knows how difficult it can be, but now help is at hand in the form of our new and unique Wreckfinder.

We have been designing Forward Looking Sonar since 1992. These display a two dimensional view of the seabed ahead of the boat. But our patented FLS actually has the potential to do much more because the returning echo carries within it a lot of information about the nature of the seabed.

Wrecks are not the only man made objects on the seabed, there are also mines, and naval sonar has been developed which can distinguish mines buried in mud at some distance. This technology is newly available for peaceful purposes, and we have married it to our proven FLS technology to produce the Echopilot Wreckfinder.

The heart of the Wreckfinder is the "classifier" which is a clever piece of software that can learn how to recognise a wreck on the seabed. Our test vessel, the MV Echopilot, has spent many hours at sea hovering over known wrecks collecting data with an FLS in order to train the classifier. Just as we can distinguish between natural and artificial objects so the classifier can learn exactly the same skill. In fact the

classifier in the Wreckfinder is better than the human eye at discerning a wreck because it uses features within the FLS signal that do not show on the screen. Our classifier looks for 10 different features within the echo signal, things like shape and strength and more complex features too.

The Echopilot Wreckfinder is based on the FLS Gold although it has both hardware and software modifications. It uses the same professional transducer with bronze skin fitting. The through hull fitting has 3 inches of useable thread which enables the transducer to be mounted vertically in both planes in most hulls. There is a choice between single transducer installation or two transducers plus our changeover switch.

The Wreckfinder has all the features of the Sidescan, with the exception of the optional repeater. The wreckfinding facility works in both forward and sidescan modes, so that at any time the boat is moving it can be searching for wrecks. The presence of a wreck under the boat is shown by a high reading on the confidence bar chart. If the wreckfinder is interfaced with a GPS then it will automatically store the GPS position of the last 10 wrecks located. Even if you are not looking at your Wreckfinder it is always scanning for those elusive wrecks and noting their location for you!



10

20

10

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WRECKFINDER

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Sonars are 200KHz so they work well together. Brookes and Gatehouse use 183KHz (again compatible) but Raytheon use 200KHz so are not.

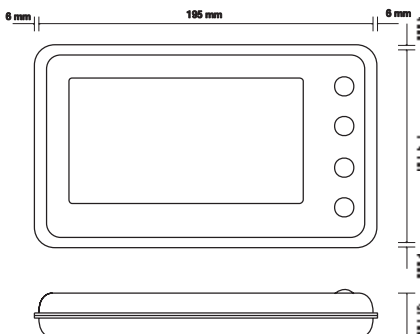
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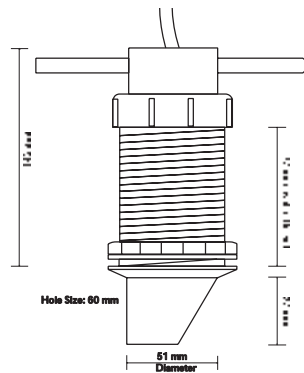
Technical specification

Voltage	Consumption	Frequency	NMEA out	NMEA in	GPS in
12 or 24v	200ma Max	200 KHz	DBT VHW VLW	DBT VHW VLW	GGA etc

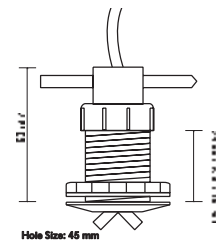
Dimensions



Transducers



Log Transducer



Standard Kit

- Display
- Power cable
- NMEA/Repeater out cable
- Mounting stirrup kit
- Transducer (professional)
- Thru-hull fittings & blanking cap
- Shipping weight: Wreckfinder 4.2kg

Options

- Speed kit
- Spare transducer (professional)

EchoPilot have a policy of continuous improvement and reserve the right to change specification

