

WASSP F-Series Multibeam Sonar Specifications

FREQUENCY	160kHz	80 kHz
Sonar Type	112 beams	
Power	40W to 1.2kW	150W to 1.5kW
CW Pulse duration (ms)	0.1, 0.2, 0.5, 1.0, 2.0	0.2, 0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0
Transducer Type	Hull Mounted	
Transducer Dimensions (LxWxH, mm)	330 x 168 x 98	533 x 340 x 133
Transducer Weight	15 kg with standard 10M cable	39 kg with 20m cable
Transmit Beam Width (arthwartships x fore-aft)	120° x 4°	
Receive Beam Width (arthwartships x fore-aft)	120° x 12°	
Depth Range	2m – 200m	10m – 500m
Beam Forming	Digital	
Max Swath Detections	120°	
Roll Correction (Accuracy based on sensor used)	Yes	
Pitch Correction	Partial – depth correction only	
Heave Correction	Partial – depth correction only	
Ships Reference Corrections	Partial – depth correction only. Positional Corrections based on ships referenced to account for GPS, transducer location.	
Sound Speed Correction	Surface Only	
Max Ping Rate (Hz)	8 (5m range)	8 (10m range)
Bottom Detections	Amplitude & Phase	
Minimum Resolution (height of smallest target detectable at nadir)	7.5cm	15cm
Beam Spacing	Equiangular 120° @ 1.07° beams	
GPS Interface	GGA, VTG, ZDA + Sensor	
Tide Correction	Prediction based on tide stations	
Sensor Interfaces*	Furuno SC30 JRC JLR-20 CDL MiniSense Kongsberg MRU TSS1 POS MV V4	
Software Interfaces*	WASSP Navigator Olex Sodena Turbo Tactic	

* Additional interface options can be configured on request to meet end-user requirements.

Prices and specifications subject to change without notice.



WASSP international sales, service and support

WASSP is fully supported in the field by our international network of dealer service technicians.

For details of the WASSP dealer nearest you please go to our website – www.wassp.com.

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F-SERIES



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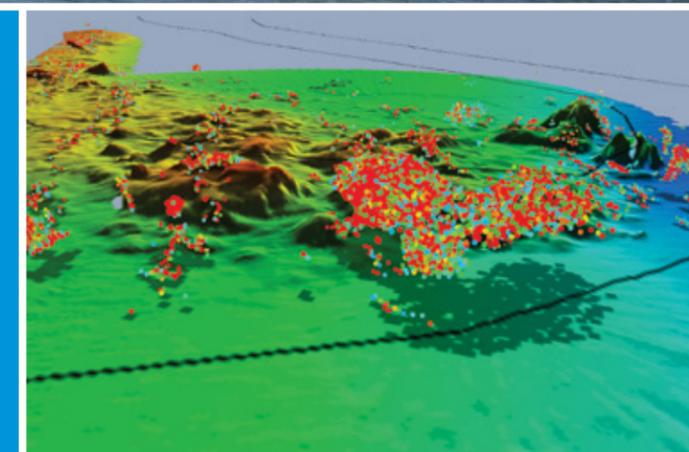
THE No.1 MULTIBEAM SONAR FOR COMMERCIAL FISHING

'...it feels like a kind of blindness to fish without WASSP'



'WASSP is different from ordinary sounders. It gives us a much better idea of how big a fish school is, and you can fine tune your course to port or starboard to get the max in the trawl.'

BERT PLUG, SKIPPER, SCH-6 ALIDA.
THE NETHERLANDS.





WASSP F-Series will help you catch more fish, more profitably

' WASSP is the most important technological advancement for commercial fishing since the introduction of radar, colour sounders and GPS. '

GARY KERR, CRAY FISHERMAN, AUTHOR AND HISTORIAN. AUSTRALIA.



There's nothing on the market like the WASSP F-Series multibeam sonar.

WASSP was the first product to bring the benefits of multibeam sonar to commercial fishing. 112 beams in a 120° across-track sector under the vessel to provide unparalleled views of the water column and the seafloor (swath width on the bottom is 3x water depth).

WASSP lets you accurately locate fish schools, profile the seafloor and map bottom hardness - all in 3D, all in real-time.

WASSP F-Series is the No.1 multibeam sonar for commercial fishing that:

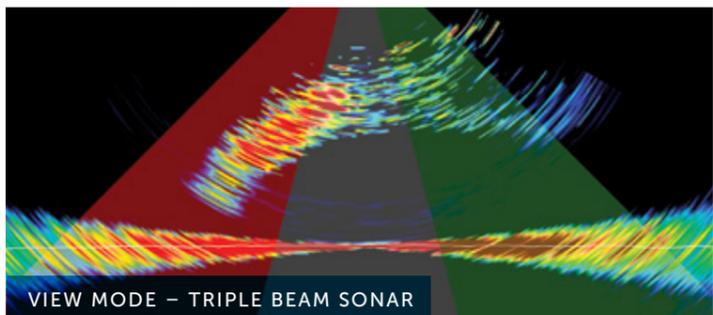
- Delivers increased catch rates, faster turnaround times and reduced fuel consumption, bycatch and discards.
- Tracks fish school movements in real time to help you place your net in the right place at the right time, every time.
- Gives you the ability to quickly and precisely place your cray and lobster traps in optimum locations.
- Allows you to track bottom hardness and structure to get your nets closer to previously unfishable areas, avoiding gear damage or loss.
- Lets you break-in new ground faster and more accurately than ever before.
- Overlays data onto charts and records your trips to build up a comprehensive map of your fishing grounds - all in high-resolution 2D/3D.

Multiple display options

WASSP's configurable interface can display water column, seafloor or hardness information to match user-needs.

' When we're towing on a dense shoal we can cut a slice through, so we don't take too much, or we can alter more into the shoal if we need to. '

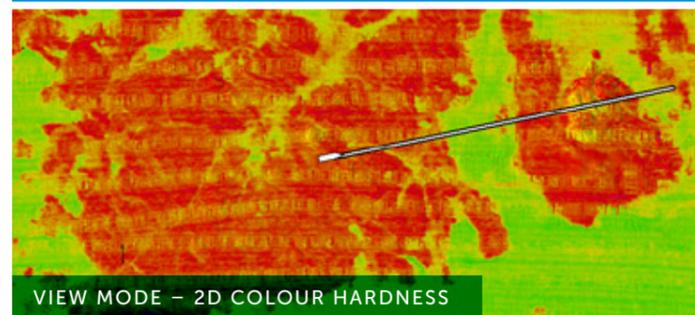
GEORGE WILLIAM ANDERSON, OWNER/SKIPPER, FV ADENIA. SCOTLAND.



VIEW MODE - TRIPLE BEAM SONAR

' WASSP lets me to go where I would never have fished before, giving me a higher value catch, with reduced fuel consumption. '

DOMINIQUE FAOU, OWNER/SKIPPER, FV GWENVIDIK. FRANCE.



VIEW MODE - 2D COLOUR HARDNESS

Real-time viewing

WASSP data is displayed in real-time enabling you make on-the-spot decisions.

As you run over a fish school WASSP will precisely locate it in the water column, letting you adjust course and set your net to ensure it is best placed to optimise your catch, or adjust it to avoid net damage on foul ground or an underwater obstacle.

WASSP also tells where the bulk of a fish school moves when your engine noise causes it to split as you pass over the top!

Recording with WASSP Navigator 3D

WASSP's 3D visualisation software lets you record bathymetric data, fish shoal and seafloor hardness information onto navigational charts, or interface with leading plotters such as Olex and Sodena Turbo Tactic.



Anyone can get great results with WASSP

WASSP F-Series is quick to learn and simple to operate on the water. You don't need to be a technology expert to get the best results with WASSP multibeam sonar.

WASSP is quick to install, minimizing downtime for your boat

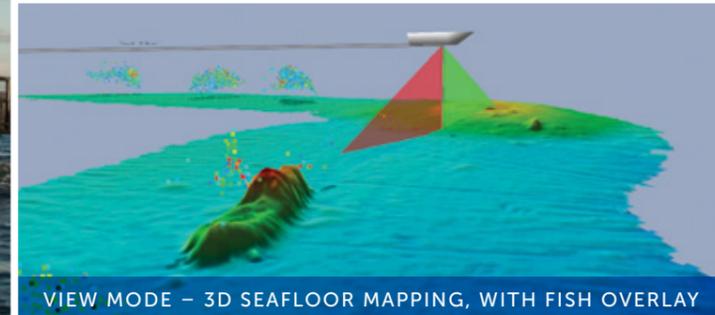
WASSP multibeam sonar comprises three modules: transducer, the signal processing box, called a BTxR, and the dedicated WASSP PC in the wheelhouse. Software updates, based on user-feedback and requests, provide new features and enhancements.

Two versions for commercial fisheries operating at different depths:

- 160kHz | 200m depth capability
- 80kHz | 500m depth capability

' One of the biggest benefits of WASSP has been the huge savings in fuel. Individual pinnacles make up the majority of our ground and you can waste a lot of time searching for them. '

DAN MCRAE, CRAY FISHERMAN, FV CRUSADER. NEW ZEALAND.



VIEW MODE - 3D SEAFLOOR MAPPING, WITH FISH OVERLAY