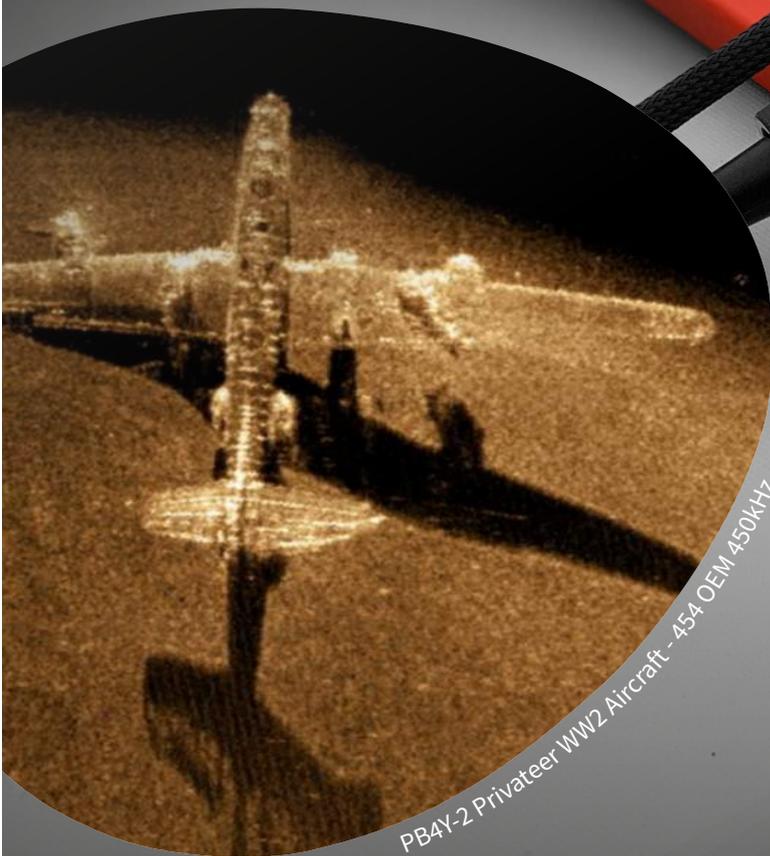


Starfish Sidescan Sonars

Exceptional image quality in a compact and rugged form factor for single person deployment



Changing the shape of the industry, the StarFish range offers towed, hull-mounted and OEM systems specifically designed for shallow water survey work. StarFish systems are available in 450kHz for increased range and 1MHz for improved resolution.

starfish

enquiries@blueprintsubsea.com
www.blueprintsubsea.com



Systems



StarFish 452F PRO

450kHz CHIRP operation with up to a 200m swathe width, the towed StarFish is ideal for survey applications.



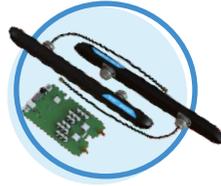
StarFish 990F XD

High definition 1MHz CHIRP operation, the towed StarFish is designed for survey and Search And Rescue applications.



StarFish 992H Hull-Mount

1MHz CHIRP operation, hull mounted StarFish suitable for small inshore crafts.



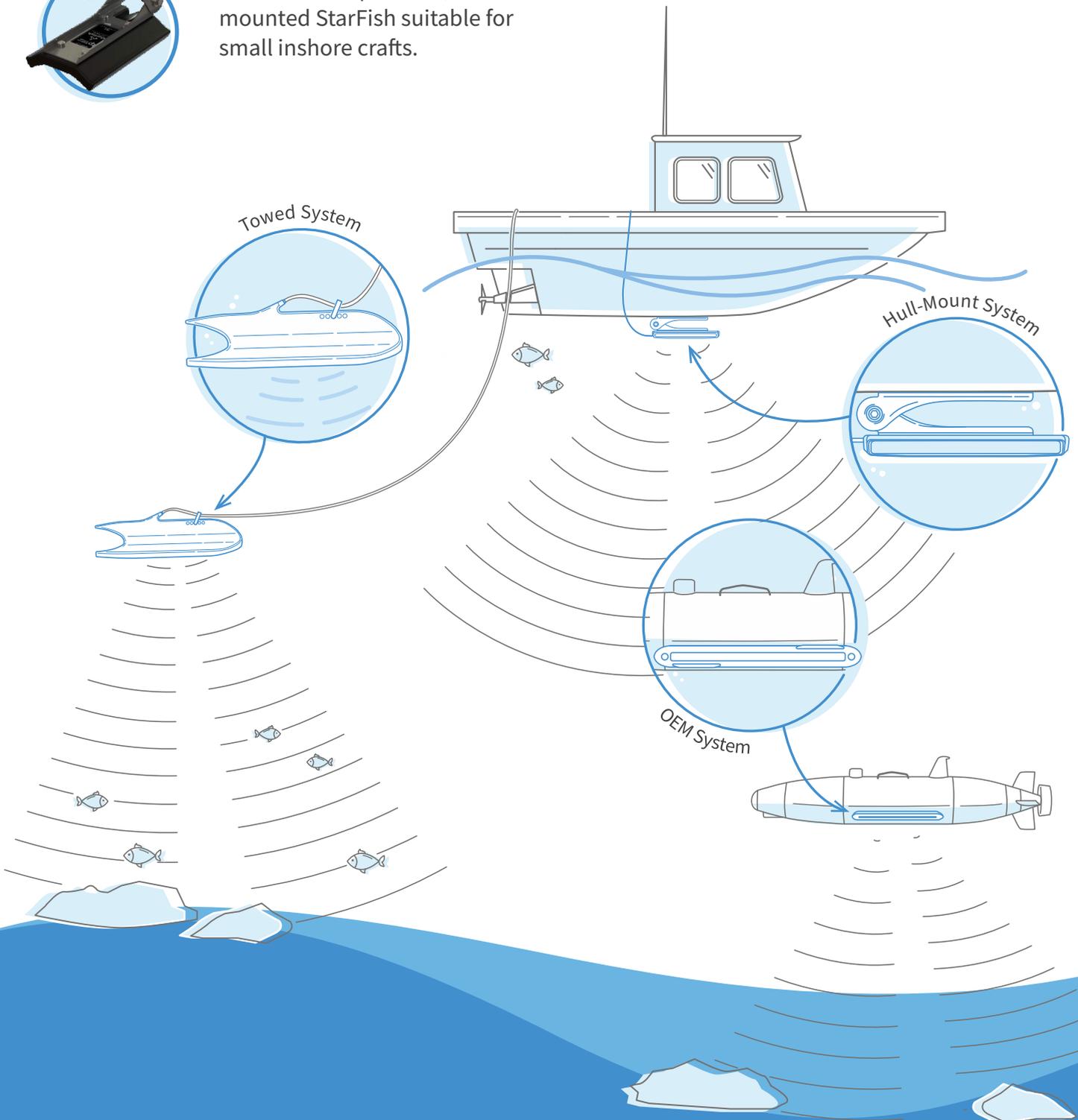
StarFish 454 OEM

450kHz CHIRP OEM system for ROV and AUV integration. Lower frequency for longer range.



StarFish 990 OEM

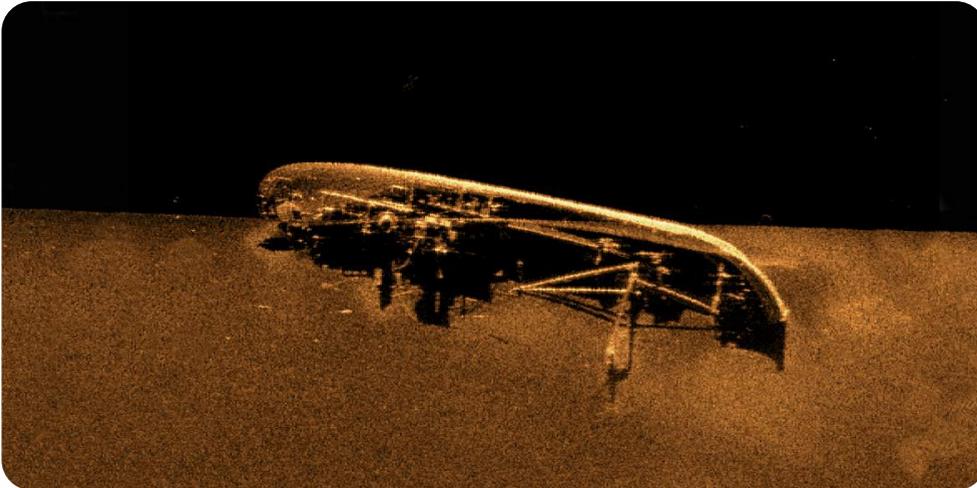
Higher frequency for higher resolution, 1MHz CHIRP system for ROV and AUV OEM integration.



Features

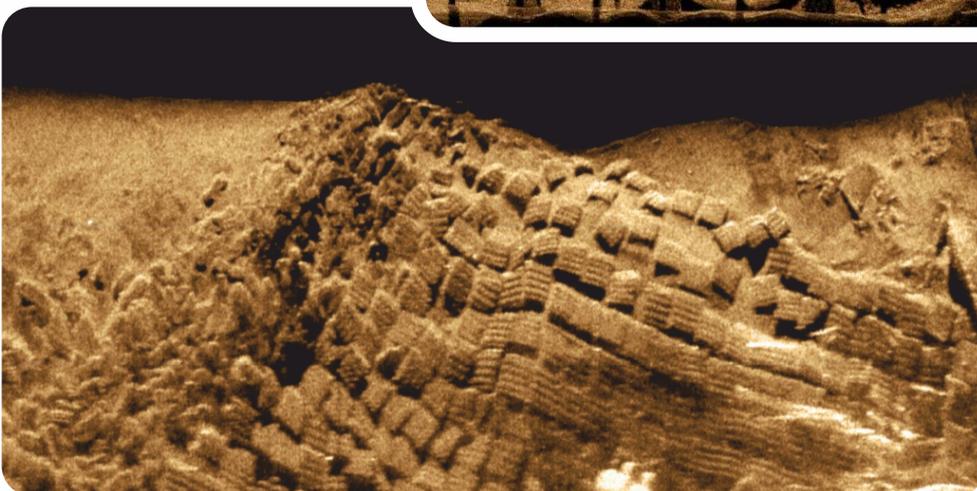
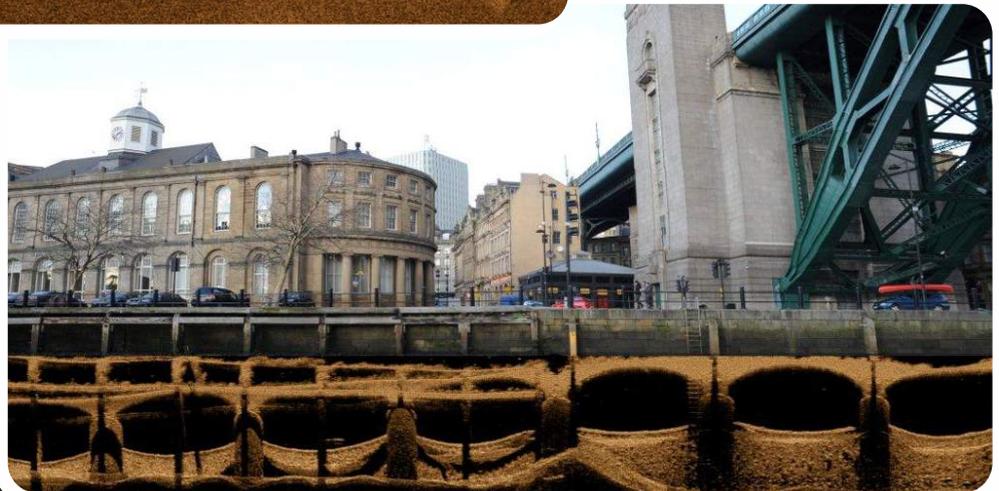
- Stable full-length tri-fin towed transducer design for improved imaging
- Lightweight and compact OEM transducer design for easy integration
- Operating frequencies from 450kHz to 1MHz utilising CHIRP technology
- Up to 200m swathe coverage
- Horizontal beam width as low as 0.3° for high resolution imagery and easier target identification
- Towed systems depth rated to 50m and OEM to 2000m
- Simple, intuitive operator software
- Single person deployable

Imagery

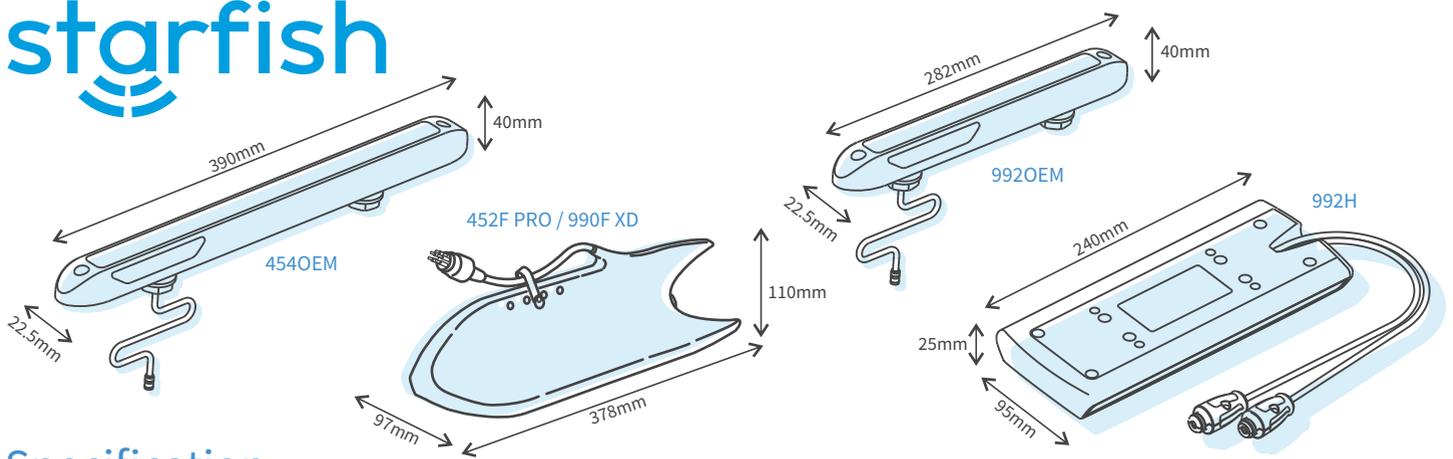


Steamship
452F 450kHz

Quayside Survey Composite
990F 1MHz



Concrete Mattress
452F 450kHz



Specification

Sonar	StarFish 452F PRO	StarFish 990F XD	StarFish 992H	StarFish 4540EM	StarFish 9920EM
Frequency	450kHz CHIRP	1MHz CHIRP	1 MHz	450kHz CHIRP	1MHz CHIRP
Operating Range	Up to 100m (328ft) per channel	Up to 35m (115ft) per channel	Up to 100m (328ft) per channel	Up to 100m (328ft) per channel	Up to 35m (115ft) per channel
Horizontal Beam Width	0.8°	0.3°	0.3°	0.5°	0.3°
Vertical Beam Width	60°	60°	60°	60°	60°
Transducer Angle	Tilted Down 30° from Horizontal	Tilted Down 30° from Horizontal	Tilted Down 30° from Horizontal	Variable (OEM Specified)	Variable (OEM Specified)
Length x Width x Height	378mm x 97mm x 110mm	378mm x 97mm x 110mm	240mm x 95mm x 25mm	390mm x 22.5mm x 40mm	282mm x 22.5mm x 30mm
Weight (in air)	2.0kg	2.0kg	0.7kg	0.8kg	0.7kg
Construction	Polyurethane Rubber	Polyurethane Rubber	Polyurethane Rubber (Acetal Housing)	Polyurethane Rubber (PA6 Housing)	Polyurethane Rubber (PA6 Housing)
Colour	High-Vis Yellow	High-Vis Red	Black	Black	Black
Depth Rating	50m	50m	50m	2000m	2000m
Connector	Impulse, 5-way (MCIL-5-FS)	Impulse, 5-way (MCIL-5-FS)	N/A	SMB Female Plug	SMB Female Plug
Supported Software Platforms	StarFish Scanline, Hypack 2009, SonarWiz.MAP/ SonarWiz 5 (Chesapeake Technology), Qester Tangent SWATHVIEW system and CleanSweep-Lite (Oceanic Imaging Consultants, Inc.). Windows SDK available for OEM integrators.				

Cable

Length	20m or 50m	20m or 50m	20m	600mm	600mm
Construction	Black polyurethane jacket with internal Kevlar reinforcing (strain) member			Coaxial Interference Shielded Cable	
Connector	Impulse, 5-way (MCIL-5-FS)	Impulse, 5-way (MCIL-5-FS)	SMB Female Plug	SMB Female Plug	SMB Female Plug

Top-Box

Model	450	990	990 OEM	450 OEM / OEM PCB	990 OEM / OEM PCB
Supply Voltage	90-264VAC, 47-63Hz or 9-28VDC	90-264VAC, 47-63Hz or 9-28VDC	90-264VAC, 47-63Hz or 9-28VDC	90-264VAC, 47-63Hz or 9-28VDC	90-264VAC, 47-63Hz or 9-28VDC
Power Consumption	6W (500mA @ 12VDC)	6W (500mA @ 12VDC)	6W (500mA @ 12VDC)	6W (500mA @ 12VDC)	6W (500mA @ 12VDC)
Power Interface	2.1mm DC jack socket	2.1mm DC jack socket	2.1mm DC jack socket/ 6-Way Pin Header	2.1mm DC jack socket/ 6-Way Pin Header	2.1mm DC jack socket/ 6-Way Pin Header
PC Interface	USB 2.0 B-Type connector	USB 2.0 B-Type connector	USB 2.0 B-Type connector/ 6-Way Pin Header	USB 2.0 B-Type connector/ 6-Way Pin Header	USB 2.0 B-Type connector/ 6-Way Pin Header
Sonar Interface	6-Way Souriau "UTS" female socket	6-Way Souriau "UTS" female socket	SMB Male Jack	SMB Male Jack	SMB Male Jack
Length x Width x Height	166mm x 106mm x 34mm	166mm x 106mm x 34mm	166mm x 106mm x 34mm	166mm	166mm
Weight (in Air)	0.4kg	0.4kg	0.4kg	0.4kg	0.4kg
Temp Range	-5°C to +40°C	-5°C to +40°C	-5°C to +40°C	-5°C to +40°C	-5°C to +40°C
IP Rating	IP50 (Protection against ingress of dust, no protection against liquids)			IP50 (if Top-Box selected)/None	

Please note that all functions & specifications may be subject to change in line with our policy of continual product development.

*Length customisable as per customer requirements

DA-103-P00231-04