

45ØF TOWED SIDESCAN SYSTEM



- The smallest towed side scan sonar available.
- Pioneering hydrodynamic design.
- Easily transportable fits in your rucksack.
- Plug & play USB interface to any PC.
- Easily powered from almost any source.
- Simple & intuitive software.



45ØF TOWE SIDESCAN SYST

OPERATING SPECIFICATIONS

The Sonar connects to the Top Box. The Top Box then connects to the power source and any Windows based PC or Laptop via a USB connection to display, record and playback digital sonar images using StarFish Scanline software.

Shows targets (like cables) as small as 2½cm (1")

Tow depth up to 8m (26ft)

20m (65ft) towing cable Tow at 1 to 5 knots

100m (320ft) acoustic range

- 1. Starfish 450F Side Scan Sonar 'Towfish' Transducer Head
- 2. Starfish 450 Top Box (includes USB and power cables)
- 3. 20m cable (included with StarFish 450F Sonar)
- AC Mains power adapter (supports 110V and 240V)
- Customer supplied DC power supply 9V-28V (i.e. battery)
- 6. Customer supplied PC or Laptop (with at least 1 free USB port and Windows 2000, XP or Vista)



SYSTEM SPECIFICATIONS

StarFish 450F Sonar Head (with 20m tow cable). Parts StarFish 450 Top-Box (with USB interface cable). Universal AC mains to DC power-supply (with **Power Supplies** international AC adaptors). 2m cigar-plug DC power lead. Crocodile-clip to cigar-socket DC adaptor. StarFish Scanline interface software CD and Software drivers.

Documentation User manual, Scanline Manual, Quick start guide.

Advanced Core system contents, plus... Rugged Peli™ Transport & Storage Case System Parts

Core System

Sonar

StarFish GPS (SiRF III)

StarFish 450F pole mounting bracket

Full compliance to the 2002/95/EC directives Compliances RoHS

WEEE Full EN50419 compliance

BOX SPECIFICATIONS

Dimensions Length 166mm (6.54"). Width 106mm (4.17"). Height 34mm (1.34"). Weight In Air Approx 0.4kg (0.88lb). 90-264V AC, 47-63Hz with Mains adaptor. Power Supply Voltage 9-28V DC supply. 2.4W (200mA @ 12V) approx when idle. Consumption 6W (500mA @ 12V) approx when scanning. Interfaces Power 2.1mm DC jack socket. Data USB B-Type connector. Acoustic 9-Way Female D-Type socket. **Environmental** Temperature Range -5°C to +40°C (23°F to 104°F).

IP Rating IP50 (Protected against ingress of dust, no

protection against ingress of liquids).

SONAR HEAD SPECIFICATIONS

Dimensions Length 378mm (14.88"). Width 110mm (4.33"). Height 97mm (3.81"). Weight In Air Approx 2.0kg (4.41lb). Approx 1.0kg (2.20lb). In Fresh Water Costruction Body Reinforced black polyurethane rubber. Depth Rating 50m (164ft). **Towing Cable** Length 20m (65.6 ft). **Breaking Strain** >150kg (330.7lb). Construction Black polyurethane jacketed with internal Kevlar reinforcing (strain) member. Min Bend Radius 30mm (1 2") Dual fin mounted transducers, with 30° down Transducer Arrangement angle from the horizontal. Vertical Beam 60° nominal width (@ -3dB signal level). Horizontal Beam 1.7° nominal width (@ -3dB signal level). Acoustic Frequency 450kHz nominal 1m to 100m (3.28ft to 328.08ft) on each channel Range

providing max 200m (656.17ft) total coverage.

Mode CHIRP pulse compression.

Pulse Length 400μs typical. Transmit Source <210dB re 1Pa @ 1m. Power Level