

TFSS-4510

Triple-Frequency Scanning Sonar

450 kHz/800 kHz /1000 kHz



Overview

TFSS-4510 Sidescan Sonar is an all-in-one triple-frequency system integrating sidescan and bottom-scan functions. Delivering exceptional imaging quality with a compact, rugged form factor, it is tailored for small ROV/AUV/USV platforms. Featuring 450kHz / 800kHz / 1000kHz transducers and an OEM-ready design, it supports straightforward system integration.

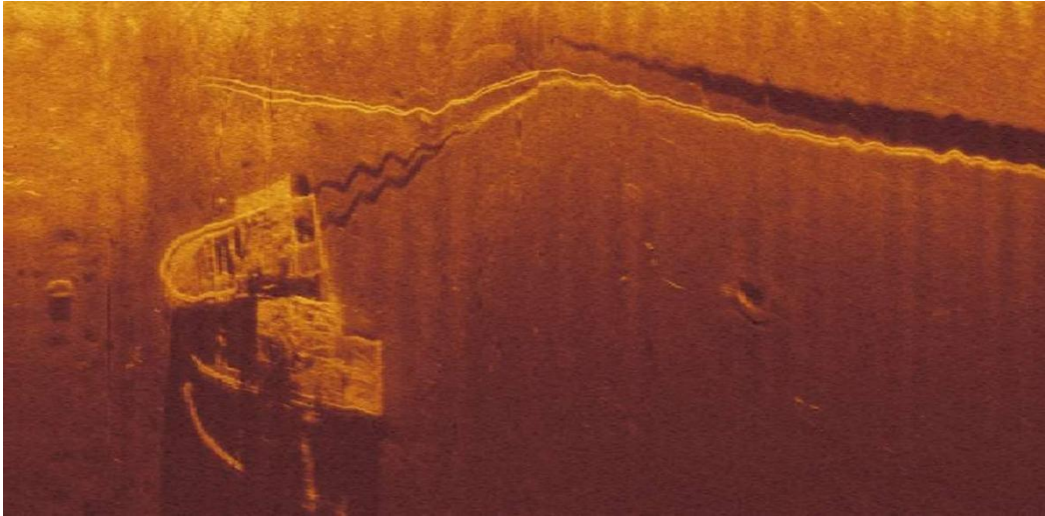
Technical Specifications

Item	TFSS-4510
Frequency	CHIRP 450 kHz, CHIRP 800 kHz and CHIRP 1000 kHz
Beamwidth	1.0°×60° @ 450 kHz; 0.55°×35° @ 800 kHz; 0.4°×60° @ 1000 kHz
Operating range	Up to 150 meters (per channel)
Range resolution	Up to 3mm
Power input	12VDC @ 2A
Power consumption	<20W
Interface	Ethernet
Length × Width × Height	208 × 39 × 32 mm
Weight	<600g (no including c)
Depth rating	300 meters

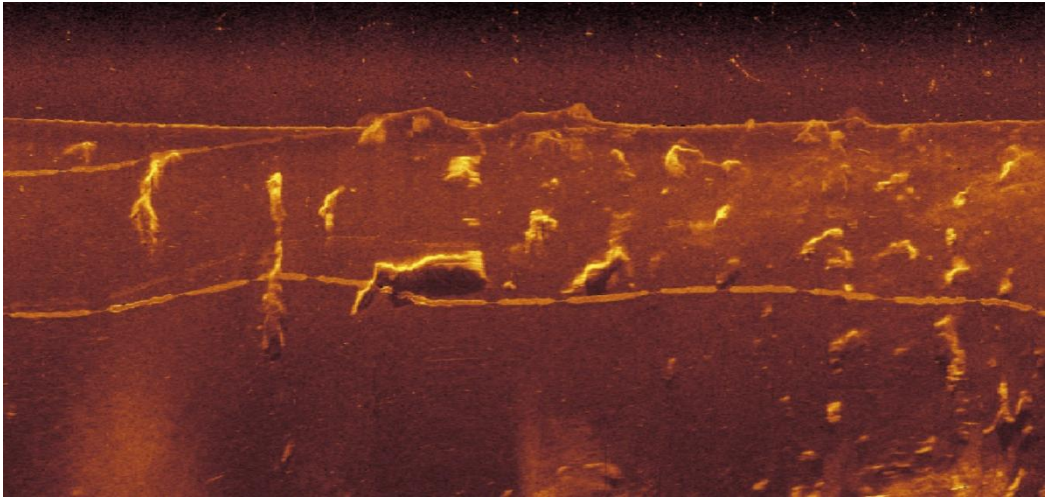
Key Applications

Designed for versatile underwater survey missions, this sonar is ideal for water conservancy projects, waterway mapping, oceanographic studies, underwater search-and-rescue operations, fishery resource assessment, hydraulic engineering monitoring and port underwater inspection.

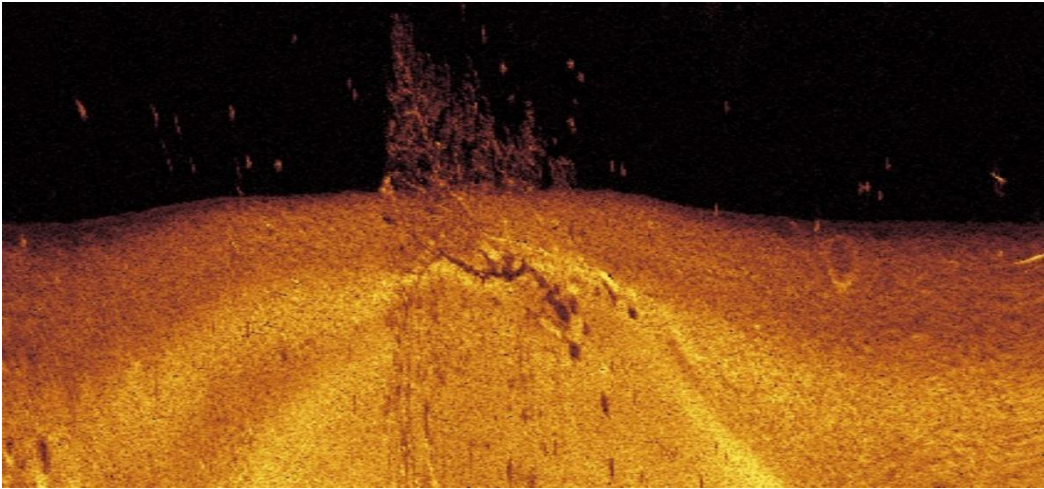
Imaging Gallery



boats (1000KHz)



Shrimp traps (450KHz)



Underwater tree and bait fish (1000KHz)