

T400S

Multi-beam Echo Sounder System

SOUTH
Target your success



Product introduction

The revolutionary T400S focuses on intelligent, integrated and high precision of multibeam echosounder system. Its ultra-compact design can be easily operated by one person and suitable for USV, ROV, AUV platforms.

The number of 512 beams can provide you with high precision measurement result. Because of IMU built-in receiver, this system does not need calibration. With low power consumption, it is also suitable to operate from battery.

T400S, small, lightweight and cost-effective could be your best choice.

Product Features

- ※ System Weight < 10Kg
- ※ FM & CW Processing
- ※ Flexible Power Source (DC10-28 V, AC100-240 V)
- ※ Simple Interface
- ※ Roll-stabilization
- ※ Efficient and portable

Applications

- ※ Bathymetry
- ※ Pipeline Surveys
- ※ River, Estuary, Channel and Pond Surveys
- ※ Harbor and Coastline Surveys
- ※ USV, ROV & AUV Integrated
- ※ Geological Survey
- ※ Search and Rescue



Small Size Sonar

Receiver and projector
Dia 220x181(mm)
Sonar processor
199x145x107(mm)



Portable

Receiver and projector
7.5kg
Sonar processor
2.45kg



Multiple Application

Bottom track, side scan and
water column



High Accuracy

Maximum 512 sounding
7.5mm depth resolution





Application scenario



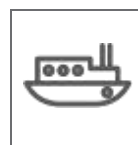
USV
measurement



Ultra-shallow
water
measurement



Water
conservancy
mapping of
rivers and lakes



Offshore
underwater
surveying
and mapping

Technical Specifications

Sonar parameters

Model	T400S
Frequency	400kHz
Swath Coverage	Up to 140°
Beam Width	2°(TX) *1°(RX)
Number of Soundings	512 soundings
Depth Range	0.2-150m
Depth Resolution	0.75cm
Beam Patterns	Equidistant and high density
Ping Rate	Up to 60 Hz
Signal Form	CW/FM
Pulse Width	17μs - 2ms
Depth Rating (Sonar Head)	50m
Roll Stabilization	± 10°
Side Scan	Support
Real-time Roll Stability	Support
Heading Accuracy(GNSS)	0.1° (2m baseline)
Roll/Pitch Accuracy	0.1°
Horizontal Accuracy	2cm+1ppm(RTK) 0.6m(SBAS)
Heave Accuracy	5cm/5%

Electric parameters

Power supply	DC18-36V (Type:24V)C AC100-240V
Power	80W
Output Interface	LAN Port*1
Cable Length	15m(Customized)

Receiver and Projector Size	Dia 220x181(mm)
Sonar Process Unit	199x145x107(mm)
Sonar Process Unit	2.45Kg
Projector and Receiver	7.5Kg
Operation Temperature	- 2°C~40°C
Storage Temperature	- 20°C~55°C

Software

SOUTHysweep data collection and display software
SOUTHysweep data process software

Data sample

