

Application Scenario



Supports USV
Surveying



Shallow Water
Depth Survey



Pond, River
and Estuary
Surveys



Harbor and
Coastline
Surveys

Technical Specifications

Sonar Parameters

| | |
|-----------------------------|-----------------------------|
| Model | T400S |
| Frequency | 400kHz |
| Swath Coverage | Up to 150° |
| Beam Width | 2°(TX) *1°(RX) |
| Number of Soundings | 512 soundings |
| Depth Range | 0.2-200m |
| Depth Resolution | 0.75cm |
| Beam Patterns | Equidistant and Equidistant |
| Ping Rate | Up to 60 Hz |
| Signal Form | CW/FM |
| Pulse Width | 30μs - 8ms |
| Depth Rating (Sonar Head) | 50m |
| Roll Stabilization | ±15° |
| Sound Velocity Sensor Range | 1350m/s-1750m/s |
| 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

| | |
|------------------|-----------------------|
| Input voltage | DC 12-48V/AC 110-240V |
| Power | 60W(type)/80(max) |
| Output Interface | LAN Port*1 |
| Cable Length | 15m(Customized) |

Physical Properties

| | |
|--|-------------------|
| Receiver and Projector Size | Dia 220 x H 139mm |
| Projector / Receiver | 5.6Kg |
| Operation Temperature | - 2°C~40°C |
| Storage Temperature | - 20°C~55°C |
| Built-in: Unit, IMU, Satellite Positioning,SVS | |

Software

SOUTHsweep
Hydrexplorer



T400S MULTIBEAM SONAR 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 (DC12-48 V, AC110-240 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 220x139(mm)



Portable
Receiver and projector
5.6kg

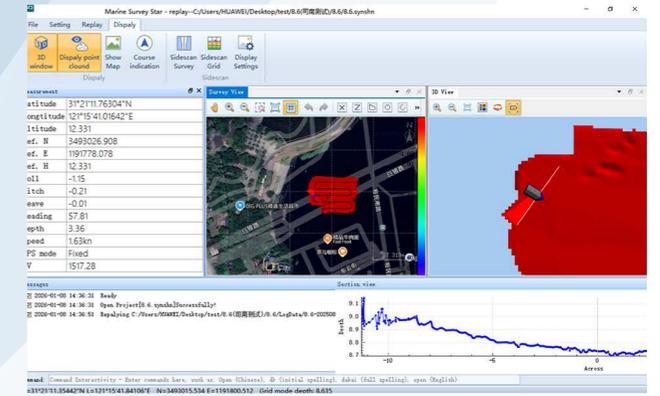
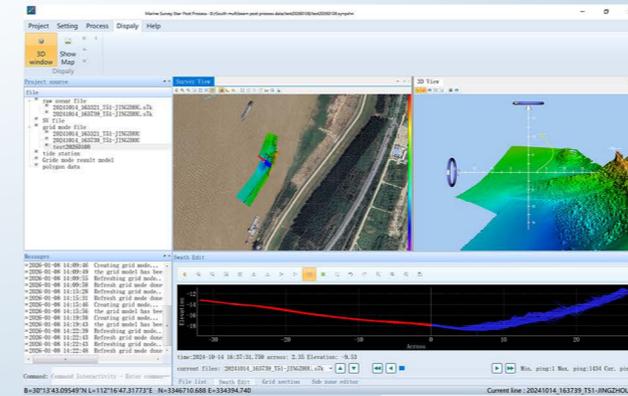


Multiple Application
Bottom track, side scan and
water column

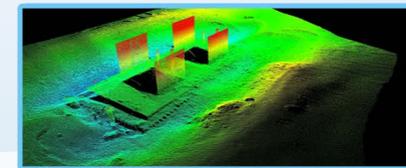


High Accuracy
Maximum 512 sounding
7.5mm depth resolution

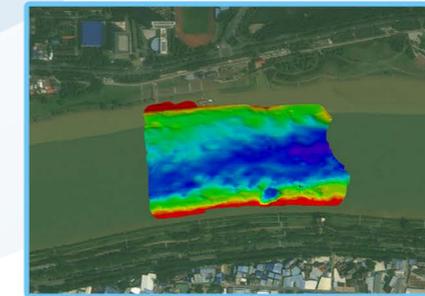
Software Sample



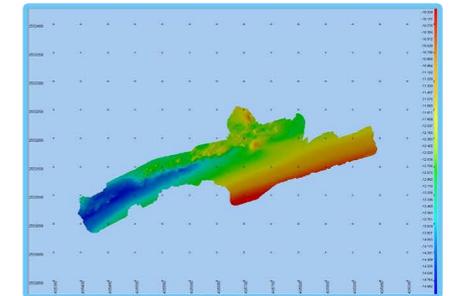
Application Areas



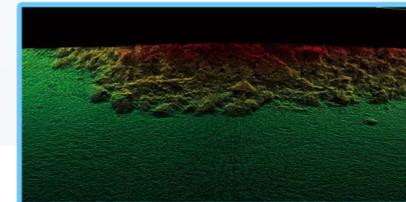
Bridge Pier Scour Survey



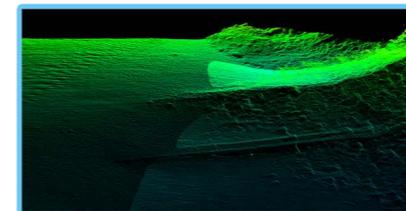
Underwater Topography Survey



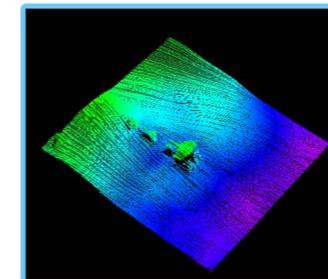
Inland Waterway Survey



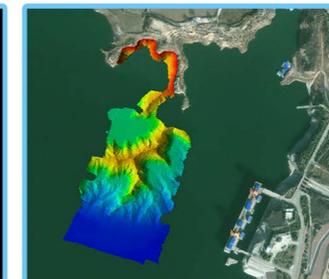
Coastal Waters Survey



Underwater Route Survey



Underwater Obstacle Survey



Dredging Navigation Survey



Reservoir Capacity Survey