



Frontier of Underwater Technology

DSME UTech

**Remotely Operated Surface Vehicle -
Side Scan Sonar Equipped [SB-100S]**

Features

- Remotely Operated Boat
- Wireless Communication Sonar System
- Very High Resolution
- Easy to Operate

Applications

- Fast Acoustic Survey of River, Lake and Dam



CETRAX SYSTEMS LTD.

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SPECIFICATIONS

Side Scan Sonar (S-150)

- Aluminum
- Operating Frequency : 400 kHz
- Transducer Radiation
 - 0.3 degree horizontal
 - 40 degree vertical
- Transducer Depression Angle : 10, 20, 30 degree down, Adjustable
- Transmission Pulse : 15 μ s ~ 100 μ s
- Range : up to 150 m
- Altimeter : 200 kHz, 20 degrees
- Input Power : 12 VDC, 20 watts Maximum

Hull Propulsion System

[Surface Hull]

- Material : Fiberglass Reinforced Plastics
- Size : 1830 \times 600 \times 330 (mm)
- Weight : 50 kg include Power Pack
- Control Range : 1.5 km
- GPS(Optional DGPS)
- 12VDC Motor Controller
- Top Speed : 1.7 m/s

[Wireless Communication]

- Network Based Serial Device Server
- IEEE 802.11 g 2.4 GHz wireless LAN protocol
- Omni Directional Antenna
- Data (SSS & GPS) Communication
Range to Deck Control Unit : Up to 1 km

Remote Controller

- 30 Model Operation Memory
- Advanced Digital Trims
- Multi-Line Graphical Display
- Programmable Multi-Point Curve Mixing
- Programmable Trainer Function
- Changeable RF Module
- Switch Assignability

Deck Control Unit

- Size : 490 \times 380 \times 185 (mm)
- Weight : 13 kg
- Weather-Tight Portable PC System
- Monitor : High Luminance Color LCD 15" Fitted
- USB, LAN Interface
- Power : 24 VDC, 100 W Max.
- Battery Pack : 24 VDC, 26 Ah

[Wireless Communication]

- IEEE 802.11 g 2.4 GHz wireless LAN protocol
- Omni Directional Antenna

Softwares

- Operating System : Windows XP professional

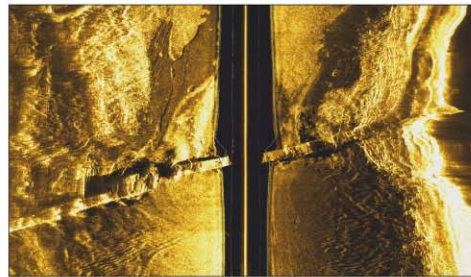
[Operating S/W] RealScan[®]

- Image Filtering
- Target Area Setting & Navigation
- Target Marking
- Survey Route Planner
- Transducer Protection

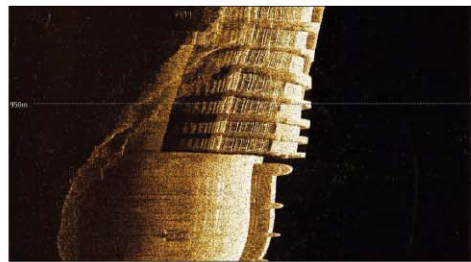
[Post-Processing S/W] PostScan[®]

- Image Print and Save Function
- Work Area Mosaic Function
- Partial Image Zoom
- Altitude Line Setting Function
- Waterfall Printing Function

SAMPLE IMAGES

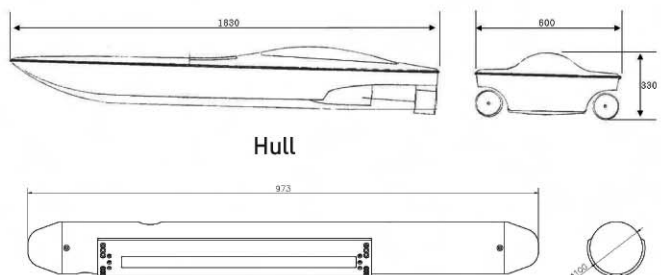


Sunken Bridge



Dam Gate

DRAWING



Hull

Side Scan Sonar