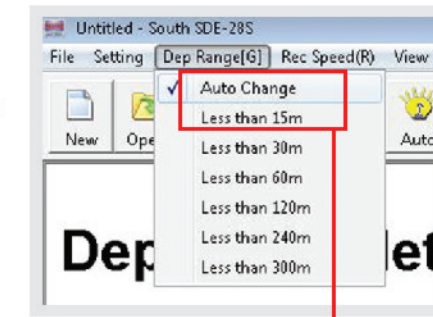


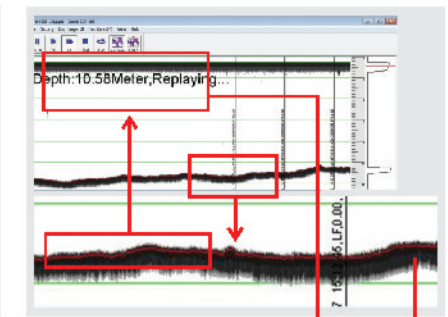
## ONBOARD SOFTWARE

### SDE-28S (for depth measurements)

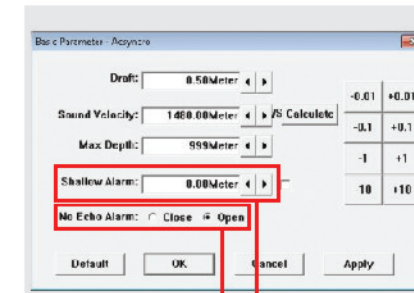
- Real-time vivid display of graphic and data, easy approach to underwater waves
- Integrated sound velocity calculation for more accurate results
- Smart alarm for shallow water and "No echo" tracking to secure hydrographic operations
- Real-time display of the water depth value tracking lines, easy to be compared with underwater waves
- Automatic measurements and switch, intelligent operation, easy to use
- Optional output formats and convenient printing facilities



Auto Change Of Depth Range

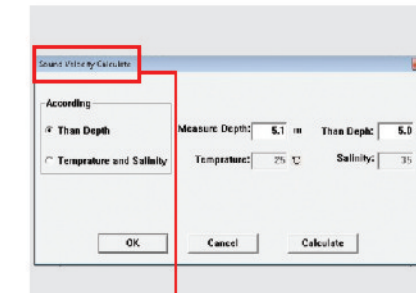


Real-time display of water depth data

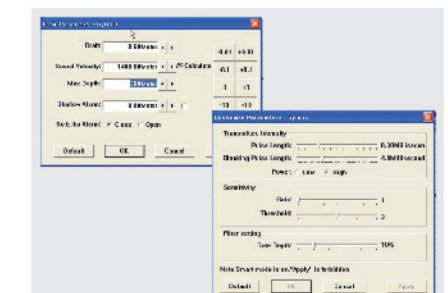


"No Echo" Alarm

Shallow-water Alarm



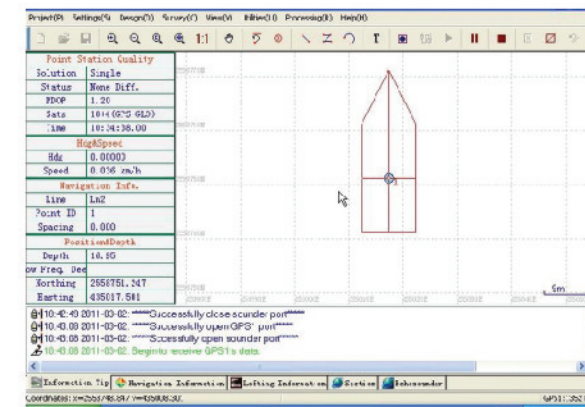
Sound Velocity Calculation



Basic and Customized Parameter Settings

## KEY FEATURES

- Embedded WindowsXP operating system, user-friendly interface
- Integrated with both computer and echo sounder at industrial level, yet low power consumption
- Full aluminum housing, compact and handy, particularly designed for less-than-ideal circumstances
- High-speed DSP chip processing technology to ensure reliable waveforms and depth values
- Supports NMEA-0183 communication to gain orientation information
- High compatibility, flexible to connect different GPS devices
- Built-in flash memory upgradeable to larger capacity for diverse demands
- 12.1-inch color LCD featuring a wide viewing angle and adjustable brightness
- Automatic storage of depth data up to 24 hours, supports replay

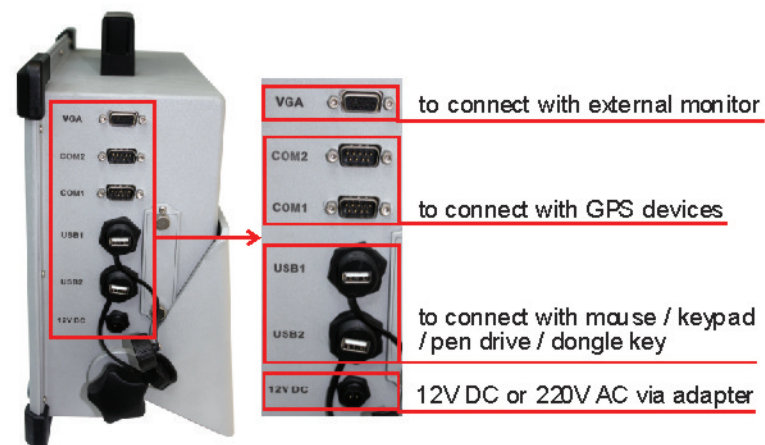


PowerNav

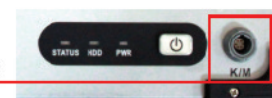
### PowerNav (for navigation purpose)

- New software kernel, faster processing and more stable
- Professional Engineering map sheet and data management, wizard-style parameter setting
- High compatibility, flexible to import graphs and data, connectable to all GPS devices and echo sounders
- Modular designed, meets diverse needs of hydrographic engineering projects
- Direct graphical navigation window box, auto voice prompt for yaw
- Intelligent scheme line model, available for fast drawing of waterway, Area, arc, etc.
- Customized formats for data export edit, easy to export To all Mapping software

## USER INTERFACES



to connect with keypad & mouse



## APPLICATIONS

- Coastland, fairway depth measurements
- Freshwater, lake, reservoir depth measurements
- Dredging engineering measurements
- Integrated automated depth measurement (navigation measurement software required)
- Positioning navigation terminal (compatible to all GPS models with NMEA-0183 data exported) for dredging engineering projects



A Variety of Solutions for Different Hydrographic Projects  
(Note: different accuracy levels result from working with different GPS receivers.)

## SPECIFICATIONS

### Measurements

#### Frequency

200 kHz

#### Beam Angle

7°

#### Depth Resolution

0.1ft/0.01m

#### Accuracy

$\pm 1\text{cm} \pm 0.1\%D$  (0.1% of depth value)

#### Ping Rate

14Hz, Maximum 30Hz

#### Sound Velocity

1300-1700m/s, resolution is 1m/s

#### Depth Range

0.3-300m/900ft

#### Draft

0-9.9m

#### Gain Control

AGC and TVG, depth and gain, a double door tracking

#### Output data format

SOUTH, SDH-13D, DES025, INN455, ODOM etc

### Physical

#### Environmental

-30°C ~ +60°C non-condensing

#### Output Power

Up to 300 watts

#### Power Supply

9-15V DC, less than 25w,

110~265V AC (optional),

#### Dimension

35cm × 29cm × 14cm

#### Weight

7.5kg

### Hardware part

#### Embedded system index

CPU frequency 1.6GHz

Internal memory 1G

Memory capacity 4G high-speed CF card

(supports extended storage)

#### I/O interface

2 USB

2 RS232

1 VGA interface

#### Display Panel Layout

12.1-inch color LCD

Touch screen

Embedded windows XP OS

Power ON/OFF

Interface protection

Separate Panel Overlay for

Keyboard

Mouse

### Remarks

Measurement accuracy and operation range might vary due to atmospheric conditions, signal multipath, obstructions, observation time, temperature, signal geometry and number of tracked satellites. Specifications subject to change without prior notice.



### STANDARD CONFIGURATION

1. Echo Sounder SDE-28S	1pc
2. Carrying Case (for echo sounder)	1pc
3. 200KHz Transducer	1pc
4. Transducer Pole	1pc
5. Carrying Case for Transducer	1pc
6. Double RS-232 Communication Cable	1pc
7. 220V External Power Supply Cable	1pc
8. 220V External Power Supply Cable Adapter	1pc
9. 12V External Power Supply Transfer Cable	1pc
10. Keyboard (USB)	1pc
11. Mouse (USB)	1pc
12. Adapter Cable for Mouse & Keyboard	1pc
13. Pen Drive	1pc
14. SDE-28S Software	on board
15. PowerNav Software (with dongle key)	on board

Dealer info

**KOLIDA**  
KOLIDA INSTRUMENT



# SDE-28S

Single Frequency Digital Echo Sounder



**KOLIDA**  
KOLIDA INSTRUMENT

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