

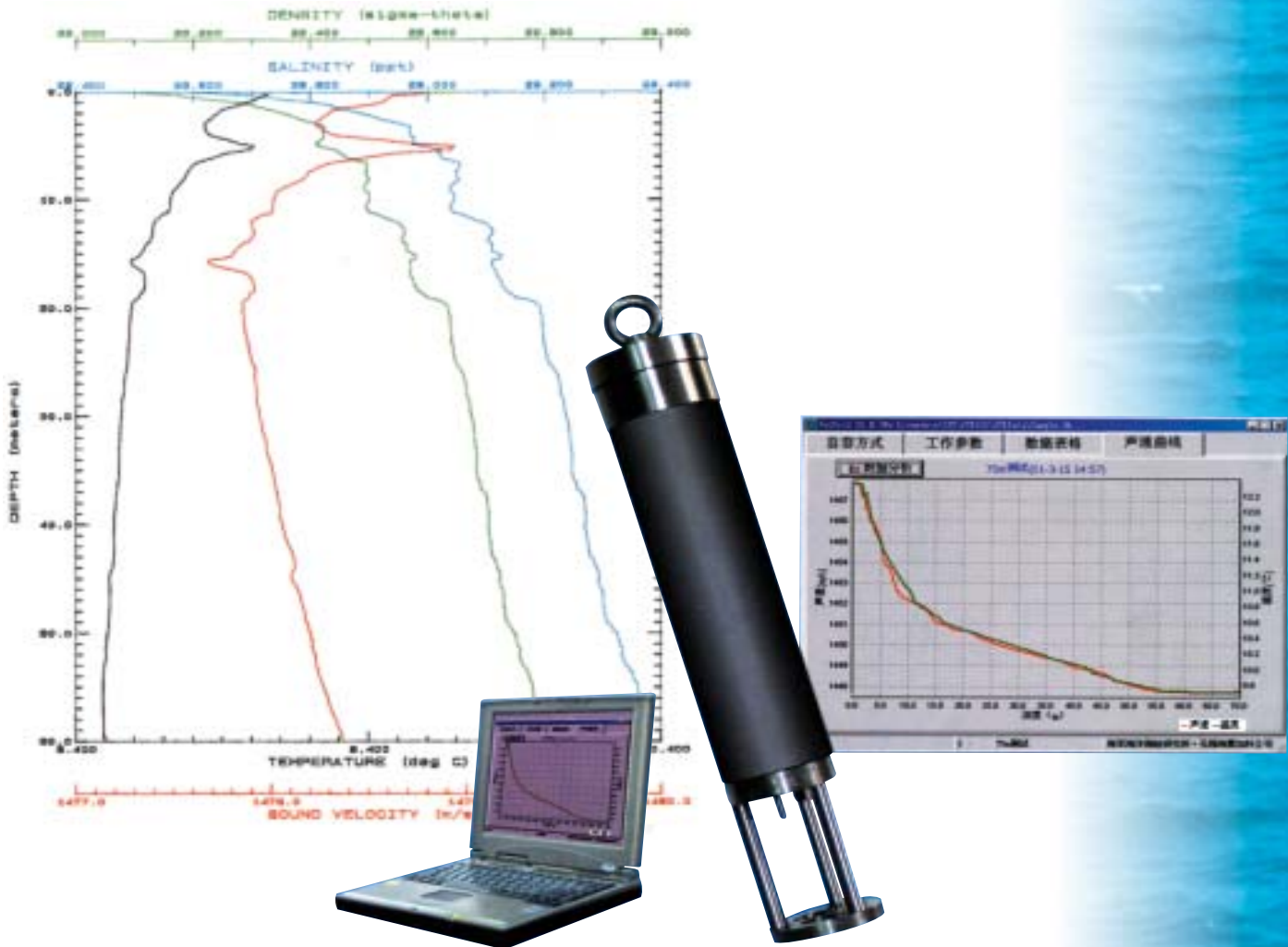
# HY1200B



HAICA

## 自容式声速剖面仪

Self-recording Sound Velocity Profiler



**HY1200B 声速剖面仪**为自容式声速剖面仪。是一种测量声波在水中的传播速度的精密测量仪器。它采用环鸣法直接测量声信号在固定的已知距离内的传播时间进而得到声速。同时还能测出水中传感器所处位置的深度和温度。能快速、有效、方便地为测深仪、声纳、水下声标等水声设备校正测量误差提供实时声速剖面数据。是水文水道测量、海洋调查勘察以及国防应用与研究等领域必不可少的设备。

**HY1200B Self-recording SVP** employs the most cost-effective methods "sing-around probe" to measure automatically the velocity of sound, the temperature and the depth in the water where the transducer is located on for calibrating echosounders, sonar systems and other acoustic instruments. It is extensively used in the fields of hydrography, geophysical exploration, military application etc.

## 技术参数 Specifications

### 关键参数

环鸣频率 10.7千赫  
 测量速率 5 赫兹  
 数据存储 4000 组  
 通讯方式 RS485, 9600 波特率, 8N1  
 电源要求 8.4伏镍镉电池  
 温度范围 4°C-35°C  
 尺寸 30L X 6D 厘米  
 重量 2 公斤  
 功率消耗 135毫瓦(1节8.4 伏电池可持续工作5小时)

### Key Parameters

Sing-around Frequency 10.7KHz  
 Sample Rate 5Hz  
 Capacity of records 4000rs  
 Interface RS485, 9600 Bauds, 8N1  
 Power requirement One Ni-Cd Cell Battery, 8.4VDC  
 Temperature Range 4°C-35°C Typical  
 Dimensions 30L X 6D cm  
 Weight 2kg  
 Power Consumption 135mW(5 hours duration for a 8.4VDC batt.)

### 探头 Probe

探头 Probe	测量范围 Survey Range	分辨率 Resolution	精度 Accuracy (RMS)
声速测量 Sound Velocity	1400-1600m/sec.	0.01m/sec.	±0.2m/sec.
深度测量 Depth	0-200m(可扩展upgradable)	0.01m	±0.4m
温度测量 Temperature	0-40°C	0.01°C	±0.1°C

### 整机特点

直接法精确测量声速、温度和压力(深度)  
 不挥发存储器, 可存储 4000 组数据  
 水上终端可选择个人 PC 或掌上电脑  
 可选择按深度间隔记录数据  
 Windows™ 中文数据处理软件  
 数据输出格式与 HYPACK™ 软件兼容  
 声速及温度剖面曲线显示与打印  
 平均声速曲线直接用于声速改正  
 电池供电, 耗电极低  
 提供定期标定和检测服务

### Features

Synchronous sampling for velocity, temperature and pressure (depth)  
 Involatile memory up to 4000 samples  
 Personal computer or palm PC available for hand terminal  
 Depth triggering for data recording  
 Operating software based on Windows™ in chinese version  
 Compatible with HYPACK™ software for data output format  
 Real-time displaying & printing velocity and temperature parameters  
 Direct calibration using average sound velocity  
 Featuring lower power consumption with 8.4VDC Ni-Cd cell  
 Fixed-time calibration & checking in the factory available

