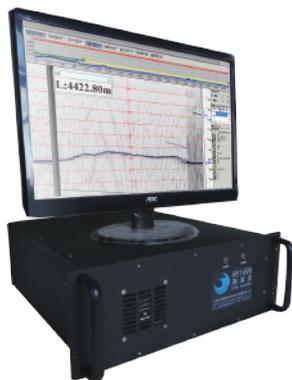


The HY1690 is a digital echosounder ideally suited for offshore survey in deep water down to 10000 meters water depth. It is composed of a mainframe and two transducers of which frequency is 10.5 kHz and 25 kHz respectively. The mainframe, consisting of an industrial control computer system and two transceivers which work standby for each other, is responsible for the data acquisition and processing. The HY1690 realizes the intelligitized operation and control by adopting the technology of digital signal processing (DSP) and computer graphics display.

HY1690 Deep Sea Echosounder

Features

- High-power transmission beam and 10000 meters depth range.
- Reliable, stable, accurate and real-time bathymetric survey.
- High-gain receiving circuit and anti-interference design.
- Technology of spatial and time filtering and dynamic tracking gate.
- High-speed industrial computer with large capacity.
- Full range depth data that can be saved and searched.



HY1690 (portable)



HY1690 (typical)



Specifications

• Operation frequency	25 kHz	10.5 kHz
• Beam width	20±1.5 °	Along-track 11±1° Across-track 20±1.5°
• Ping rate	Up to 10 Pings/s	Up to 5 Pings/s
• Depth range	1~1200 m	10~10000 m
• Output power	700 W	5000 W
• Power supply	220 V (-15% ~ +10%)	220 V (-15%~+10%)
• Dimension (transducer)	Φ310 mm × 250 mm	875 mm × 555 mm × 430 mm
• Weight (transducer)	14 kg (excel. cable)	220 kg (excel. cable)
• Installation	60 m watertight cable, hull-mounted	
• Resolution	Range: ≤100 m, 1200 m, 5000 m, 10000 m Resolution: 0.01 m, 0.15m, 0.5m, 1m	
• Navigability	Roll: ±10°, Pitch: ±5°; Depth range at speed of 7kn : Up to 10000m	
• Dimension (mainframe)	HY1690 (typical): 1000mm (L)×650 mm (W)×1350 mm (H); HY1690 (Portable): 500 mm (L)×424 mm (W)×174 mm (H), rack-mounted or placed on a platform	
• Weight (mainframe)	170 kg (typical) ; 35 kg (portable)	

