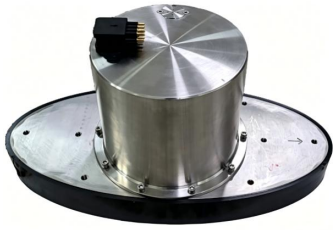
H-ADCP-150K phased-array

Horizontal Acoustic Doppler Current Profiler 150kHz



Overview

The H-ADCP-150K is a next-generation, premium-tier horizontal ADCP engineered for the most challenging aquatic environments, including expansive shipping channels, busy ports, major rivers, and sediment-heavy waterways. Leveraging advanced Phased-Array transducer technology and broadband signal processing, it extends your situational awareness with an exceptional maximum horizontal profiling range of up to 300 meters.

Specifically built for demanding real-world conditions, the H-ADCP-150K features a proprietary "High-Turbidity Mode." This breakthrough technology overcomes a major industry pain point: signal attenuation in muddy or heavily silted waters. Whether managing heavy sediment resuspension from vessel propeller wash and dredging operations in ports, or handling extreme silt loads during river flood seasons, the H-ADCP-150K cuts through the turbidity. Mounted seamlessly on berths, breakwaters, or bridge piers, it delivers continuous, long-range, high-resolution current velocity profiles, serving as the ultimate data backbone for smart port operations, cross-section flow gauging, and flood warning systems.

Applications

River Hydrology & Flood Warning Continuous flow/discharge monitoring for large rivers, water transfer projects, and flood early warning systems.

Port & Waterway Safety Current profiling in harbors and fairways for navigation safety, plus flow monitoring around bridge piers for scour assessment.

Water Environment & Ecology Large-scale circulation monitoring in lakes, reservoirs and estuaries, supporting water quality, sediment and ecological studies.

Coastal & Marine Engineering Hydrodynamic monitoring for coastal construction, offshore wind farms, and marine infrastructure design.

Smart Water & Agriculture Flow measurement for large irrigation canals and urban water systems, enabling efficient water management.

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Model	H-ADCP-150K
Operating Frequence	150kHz
Number of Horizontal Transducers	1
Current Velocity Range	±5m/s (default); ±15m/s (Max.)
Current Velocity Precision	±1%V±0.5cm/s
Current Velocity Resolution	1mm/s
Depth Cell Range	2 ~ 16m
Number of Depth Cells	1~128
Profile Depth Range	2 ~ 300m
pitch Sensor	Range: ±40°; Precision: 0.1°; Resolution: 0.01°
Compass	Precision: 1°(RMS); Precision: 0.3°; Resolution: 0.1°
Input Voltage	20 ~ 60 V
Average Power Consumption	9 W
Communication Protocol (selectable)	Ethernet, RS485, RS232
Dimension	500mm x 300mmx300mm
Weight	21 kg

TECHNICAL SPECIFICATIONS

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