HI-TARGET

▶▶ Hardware Parameters

HD-MAX
Echo Sounder

Category	Parameter	Value
Industrial Computer	CPU	Dual-core 1.6GHz
	Memory	2GB
	Display resolution	17 inches, 1280×1024
	Operation system	Windows XP
	Storage	16GB SSD
	USB port	3×USB2.0
	Serial port	2×RS232
	VGA port	1280×1024@60HZ
	Power supply	10~30V DC or 220V AC
	Average power consumption	＜30W
	Working temperature	-20℃~50℃
	Weight	9.5kg
	Dimension	480×360×110mm
Sounding Features	Working frequency	200KHz
	Maximum transmitted power	500W
	Sounding range	0.15m~350m
	Sounding accuracy	±10mm+0.1%h at 1cm resolution
	Draft adjusting range	0.0m~15m
	Sound velocity adjusting range	1370~1700m/s, 1m/s resolution
GPS Module (Optional)	Maximum sampling rate	30Hz
	Channel	14
	Signal	GPS + Beacon
	Accuracy	0.5m(1δ, Beacon)

Descriptions and specifications are subject to change without notice

HI-TARGET

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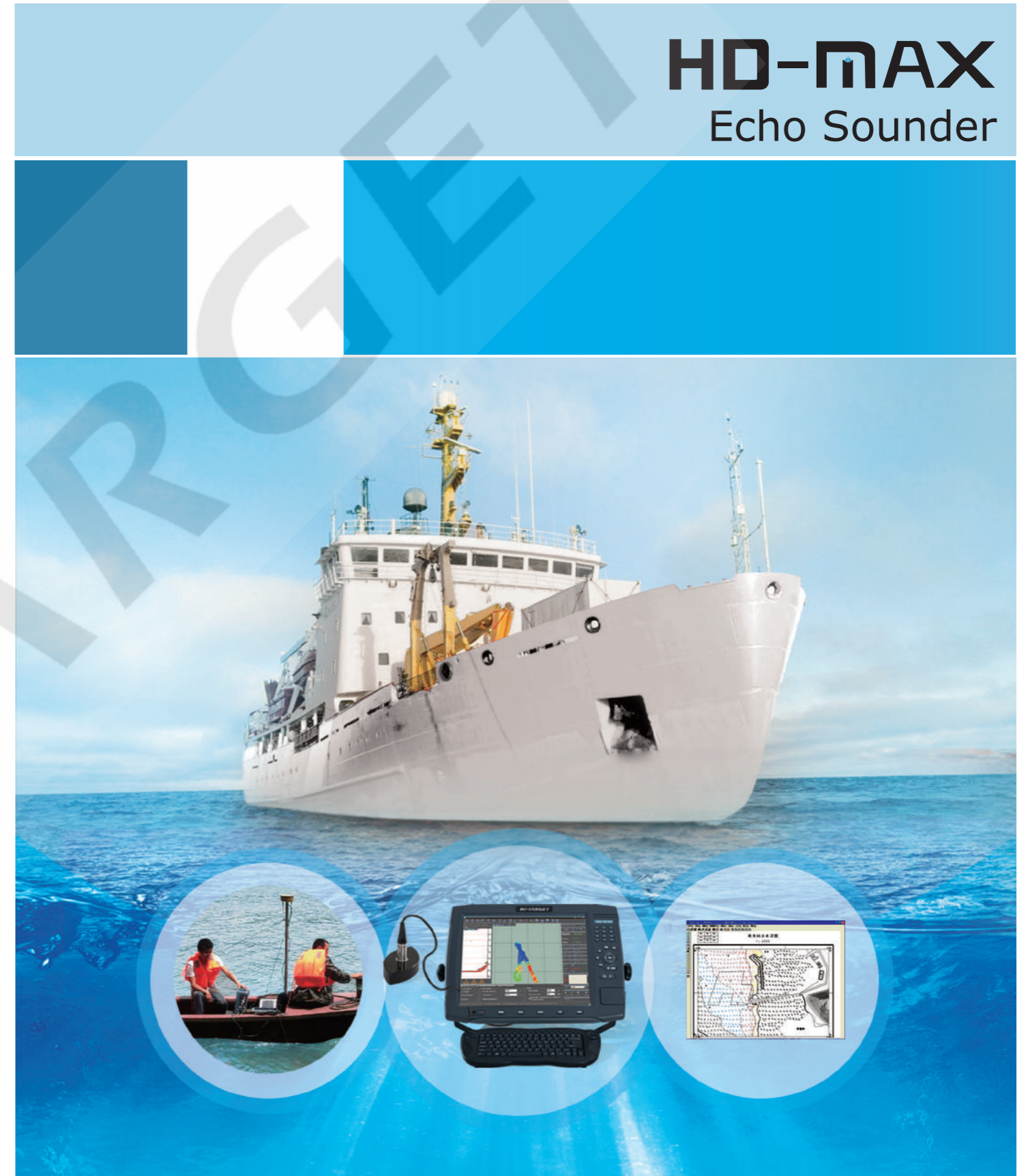
HD-MAX Echo Sounder

HD-MAX is a full-digit echo sounder for precision measurement in hydrology, reconnaissance, fairway, wharf dredge and so on. Featuring a 17" large-size screen, industrial computer platform, and preinstalled marine surveying software, HD-MAX is designed for efficient, high-speed sounding performance, and provides an excellent solution for marine surveying and mapping.
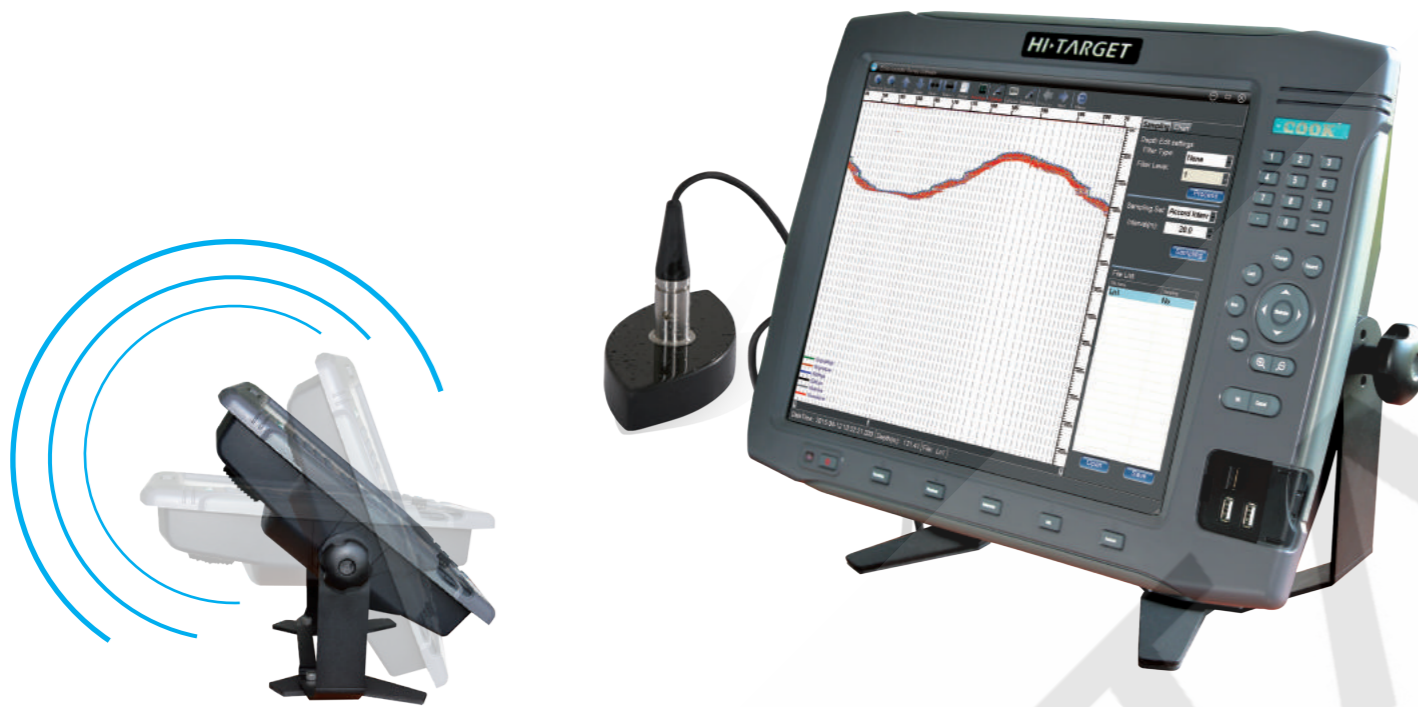
Hi-Max Sounder
Powerful and Robust Marine Surveying Software

Data Compatibility and Security

● Supports NMEA-0183 data

● Supports multi sensor data input, such as attitude indicator, sound velocimeter and electric gyrocompass

● Supports transmitting water depth data to 3rd-party software such as HyPack

● Encrypts original echo data to prevent malicious tampering

Powerful Edit Function

● Supports manual operation and software calculations to modify GPS delay

● Users can manually input, output or edit plan line and mark (point, line and surface)

● Supports import and export of DXF format plan line and background image

Friendly Post-processing Function

● Corrects false echo signal by comparing echo graph with data curve of water depth

● Manually add depth sampling point to meet the demands of special feature point extraction

● Supports single tidal station, dual tidal station and triple tidal station corrections

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Friendly Design

● Multiple shortcut buttons ensure convenient field operation

● Supports multi-screen display with VGA

● Adjustable screen display angle

Optimized Sounding Technology

● Advanced signal tracking gate technology

● Sampling rate up to 30Hz

● Optimized TVG curve delivers improved sounding performance

● Upgrading data processing framework to adapts to a more complex terrain environment

● Easy to record and replay analog signals and water depth information

Compatibility and Development

● Supports other devices such as GNSS receivers, attitude indicators, sound velocimeters and electric gyrocompasses and so on

● Optional built-in beacon module with precision up to 0.5 meters

Industrial Computer Platform

● 17" large-size screen

● 16GB SSD

● One-key reset function

● Waterproof, rugged and durable with high strength polyethylene plastic shell