

Hydro MS400P

(ELF) Multi-Beam Echo Sounder



Make one person's engineering easier



High Performance

Beam angle: 1°×2°, 512 beams, resolution 0.75cm, measurement results meet IHO special standards.



Low Power Consumption

Power consumption is less than 40W, an ordinary electric car lithium battery lasts about 8 hours.



Small Size

Size 208×234×98mm (horizontal * vertical * height), A4 printing paper size, the whole system can be transported in a backpack.



Light Weight

The weight of the whole system is 7kg (transducer 4.5kg, deck unit 2.5kg), easy to pick up, easy to carry, and quick to install.



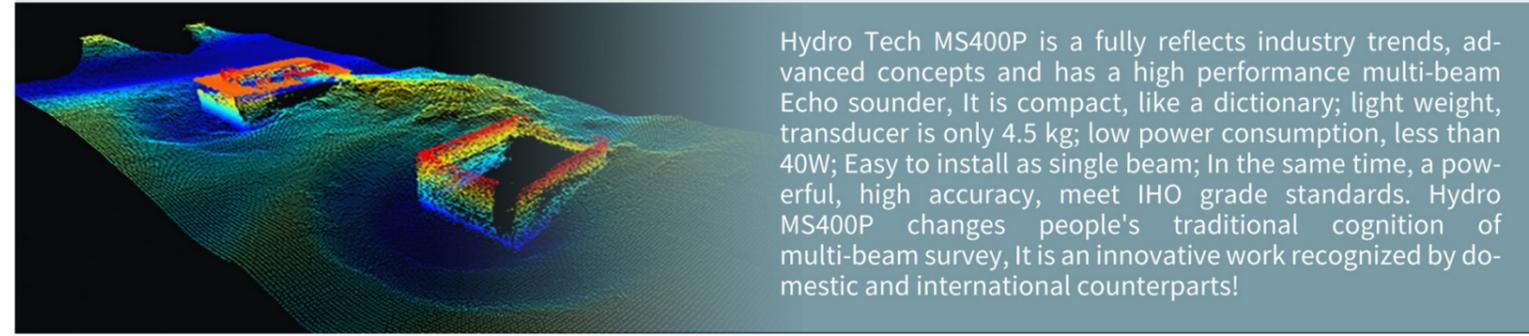
北京海卓同创科技有限公司
BEIJING HYDRO-TECH MARINE TECHNOLOGY CO.,LTD



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(ELF) Multi-Beam Echo Sounder



Hydro Tech MS400P is a fully reflects industry trends, advanced concepts and has a high performance multi-beam Echo sounder, It is compact, like a dictionary; light weight, transducer is only 4.5 kg; low power consumption, less than 40W; Easy to install as single beam; In the same time, a powerful, high accuracy, meet IHO grade standards. Hydro MS400P changes people's traditional cognition of multi-beam survey, It is an innovative work recognized by domestic and international counterparts!



Recommendation

- Suitable for users with small size, light weight, low power consumption and other requirements.
- It is especially suitable for emergency surveys, river and lake surveys in plateau and mountainous areas, and projects that can only use small or USVs as carriers.
- Domestic and cross-border and other large-scale transfer or transport frequently.
- Survey company owned underwater robot, assault boats, rubber boats, rowed boats etc.

场景



载具



Technical Specifications

Operating Frequency	400kHz
Number of Beams	512
Horizontal Beam Width	2°
Vertical Beam Width	1°
Swath	143°
Depth Range	.2~150m
Resolution	0.75cm
Operating Mode	Equal Angle/ Distance
Max Ping Rate	60Hz
Signal Form	CW/Chirp
Pulse Width	15us~8ms
Max Working Depth	50m

Special Feature

Near Field Focus	Yes
Bottom Tracking	Yes
Water Column	Yes
Side Scan Imaging	Optional
Image Sonar	Optional
Real-time Roll Stabilization	Yes

Optional Positioning and Attitude Equipment Specifications

Optional positioning and attitude equipment model	Built-in IMU	POS-S25
Heading Accuracy(GNSS Effective)	0.1° (2m Base Line)	0.06°, 4 m Base Line/ 0.08°, 2 m Base Line
Attitude Accuracy(GNSS Effective)	0.1°	0.03° (Real-Time RTK) / 0.025° (Processed)
Heave Accuracy	5cm或5% Range	5cm或5% Range 2cm或2% Range (TrueHeave)
Horizontal Positioning Accuracy	2cm+2ppm(RTK)/ 1.5m(Single Point)	±8mm+1ppm (RTK, PPK)/0.5~2m (DGPS) 10cm (Satellite difference, PPP)
Auxiliary Positioning Data:	1.Qianxun RTK CORS, 2.Post-processing support	

Physical Specifications

Transducer Size	234x 80x 99mm (Receiving Array) φ80x128mm (Transmitting Array)
Weight	6.35KG (In Air) 、 4KG (In water)
Deck Unit Size	200mm x 135mm x 70mm
Deck Unit Weight	~1.9KG
Operating/Storage Temperature	-2°C~40°C/-20°C~55°C
Power Supply	DC10-32V/AC110~240V
Power	Standard mode: 60W Low power mode: 40W
Cable Length	Standard :8m (Optional)

Software

Display Control Software
标配海测通一体化测量软件
Other Software USV software

Auxiliary Equipment

SVS: External(SVS1500)
SVP: External(SVP1500)
IMU: Optional built-in or external
Positioning: Optional built-in or external

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BEIJING HYDRO-TECH MARINE TECHNOLOGY CO.,LTD

青岛海卓同创信息技术有限公司
QINGDAO HYDRO-TECH MARINE INFORMATIONI TECHNOLOGY CO.,LTD

010-57136778 13911689871 18611176465
北京市通州区景盛南二街33号院5号楼1层01

0532-88917969 18561552708
山东省青岛市崂山区株洲路153号1号楼西单元1703



www.hydro-tech.cn