

CuBeam One

Echo Sounder Platform

[Advantages and Characteristics]

Integrated Design
Small size, light weight, low power consumption, deeply integrated with unmanned measurement platforms

Easily Perform
Built in attitude, positioning, sound speed, calibration free and debugging free, ready to work upon startup

Multiple Functions
Section measurement, strip measurement, full coverage measurement

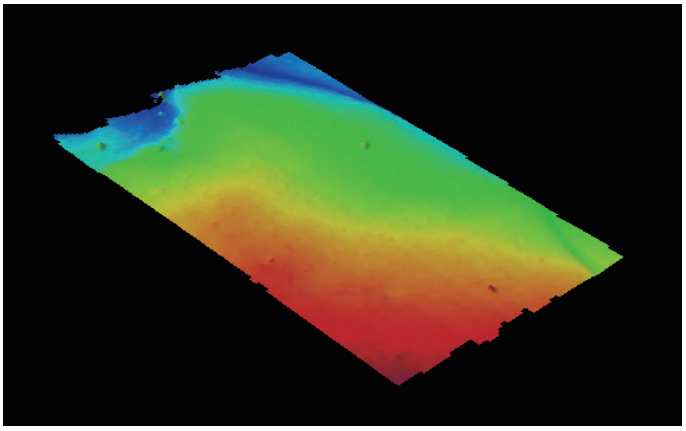
Easy to Operate
One-click parameter settings for different measurement environments

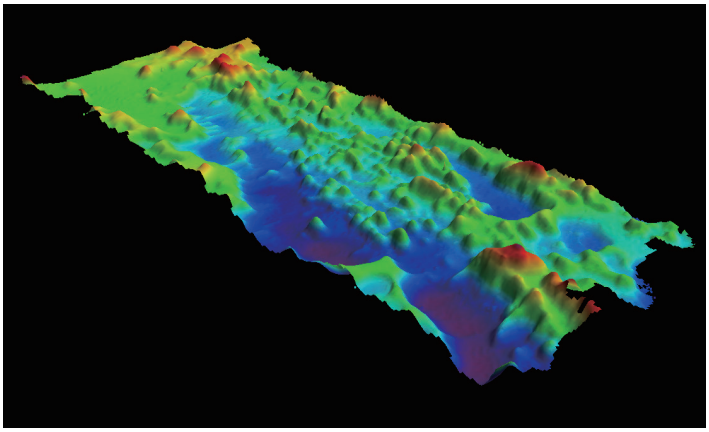
[Technical Parameters]

Sonar Parameters	Response Parameters
Model	CuBeam ONE
Operating Frequency	400KHz±20KHz
Number of Beams	512/1024
Beam Width	1.6°× 1.8°
Beamwidth Range	140°
Depth Range	0.2-150m
Sounding Resolution	1.0cm
Sounding Mode	Conformal/Isometric Mapping
Maximum Ping Rate	60Hz
Signal Form	CW/LFM
Pulse Width	20us–2ms
Voltage Withstand Level	50m
Calibration Free Installation	√
Side-scan Sonar Imaging	√
Real-time Roll Stability	√
Near-Field Focusing	√
Water Imaging	√

Navigation Accuracy	0.1°（Baseline of 2m）
Attitude Accuracy	0.05°and Other Optional Angles
Horizontal Positioning Accuracy	0.8cm+1ppm（RTK）
	/0.6m（SBAS）/1.2m（Spot Measurement）
Heave Accuracy	1.97 Inch or 5%Range
Electrical Parameters	Response Parameters
Supply Voltage	DC18-36V (Type：24V)
	Or AC100-240V 50/60Hz
Maximum Power	＜25W
Data Interface	Gigabit Ethernet
Cable Length	Standard Configuration of 32.81feet
Physical Parameters	Response Parameters
Sonar Dimensions	125*125*130mm
Sonar Weight	⩽5.95pounds(In Air) ⩽2.65pounds(In Water)
Deck Unit Size	125mm*125mm*42mm
Deck Unit Weight	⩽0.5kg
Operation Temperature	-10°C~60°C
Storage Temperature	-20°C~70°C

[Application Cases]





CuBeam

Website： www.cubeam.com E-mail： market@startest.net Company： Zhejiang Startest Marine Phone： 15711204676