

6205^S

NEXT GENERATION SWATH BATHYMETRY & SIDE SCAN SONAR

FEATURES & BENEFITS

- Next generation MPES technology
- Unrivaled swath coverage in shallow water when compared to other single head systems
- Co-registered dual frequency side scan and single frequency bathymetry with full nadir coverage
- Superior multipath rejection
- IHO SP-44 Special Order compliant
- Swath sectors of up to 200°
- Equidistant and Equiangle output options
- Comes with EdgeTech's Discover
- Bathymetric Sonar Control Software
- Motion Tolerant Side Scan
- Universal MRU mounting plate

APPLICATIONS

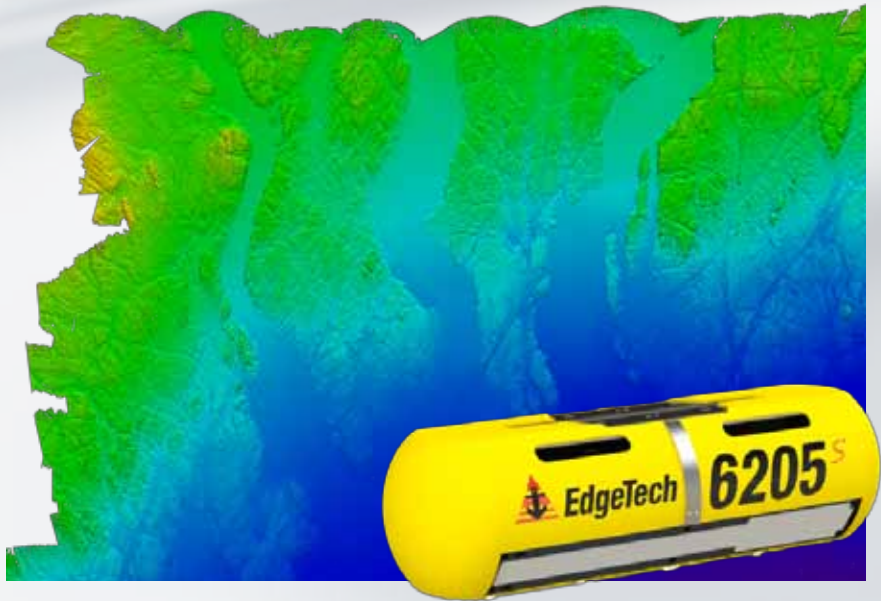
- Shallow Water Hydrographic Surveys
- Benthic Habitat Mapping
- Nautical Charting
- Military Rapid Environmental Assessments (REA)
- Route Surveys
- Dredging Operations
- Marine Debris Search
- Port & Harbor Security

OPTIONS

The 6205^S is available in several standard frequency configurations:

- 550 / 1600 kHz (Dual Frequency Side Scan with 550 kHz bathymetry data)
- 550 / 850 kHz (Dual Frequency Side Scan with 550 kHz bathymetry data)
- 230 / 550 kHz (Dual Frequency Side Scan with 550 kHz bathymetry data)
- 230 / 550 kHz (Dual Frequency Side Scan with 230 kHz bathymetry data)

The modular design of the 6205^S also allows for multi-frequency bathymetry options in a single sonar head. The field exchangeable array capability allows both shallow and deep water operations.



The EdgeTech 6205^S is a fully integrated Swath Bathymetry and Dual Frequency Side Scan Sonar System that produces real time, high resolution, side scan imagery and three-dimensional maps of the seafloor. The 6205^S overcomes the limitations of Multi Beam Echo Sounders (MBES) and Interferometric systems in shallow water by using EdgeTech's unique Multi-Phase Echo Sounder (MPES) technology. This Hybrid approach combines both Beamforming and Phase Discrimination techniques to determine each sounding along the seafloor. With the integration of EdgeTech's Full Spectrum® CHIRP technology, the 6205^S exceeds IHO SP-44, NOAA, and USACE specifications for Feature Detection and Bathymetric Point Data Uncertainty.

EdgeTech's MPES technology enables the 6205^S to produce wider and cleaner swath (over 200°) than current technologies, resulting in superior coverage enabling faster and safer survey completion. At the same time, the 6205^S rejects multipath effects, reverberation, and acoustic noise commonly encountered in shallow water environments.

Additionally, EdgeTech's latest 2205 Electronics and Modular Arrays^S are utilized in the 6205^S, resulting in an extremely lightweight design, which is required for shallow water applications and vessels of opportunity.

The standard configuration for the 6205^S includes an integrated Sound Velocity Sensor, and interfaces to most Third-Party acquisition and processing software packages, as well as to standard GPS, MRU, SVP, Gyros, and INS.

For more information please visit EdgeTech.com

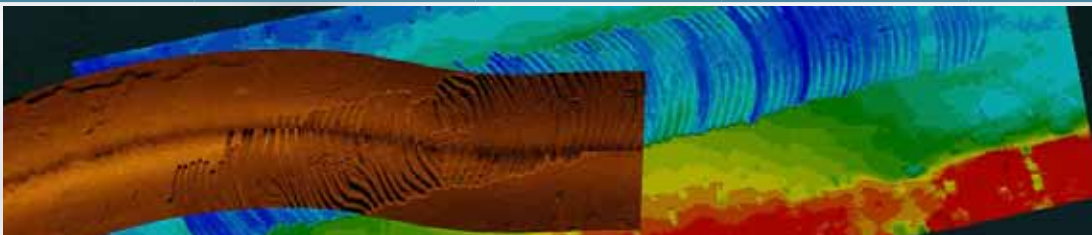
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KEY SPECIFICATIONS

BATHYMETRY				
Sonar Frequency	230 kHz		550 kHz	
Beamwidths*	1° x 0.7°		1° x 0.5°	
Optimal Operating Depth**	<100 m		< 50 m	
Max Swath Width***	400 m		200 m	
Max Swath Sector	200°			
Max Number of Soundings	800			
Sounding Patterns	Equidistant and Equiangular			
SIDE SCAN SONAR IMAGERY				
Frequency	230 kHz	550 kHz	850 kHz	1600 kHz
Horizontal Beamwidth (2-way)	0.54°	0.36°	0.29°	0.20°
Range Resolution	30 mm	10 mm	9 mm	6 mm
Max Range**	250 m	150 m	75 m	35 m
SYSTEM				
Pulse Modulation	CW & FM CHIRP			
Ping Rate (Range Dependent)	Up to 60 Hz			
Construction	Polycarbonate / 316 Stainless Steel Frame			
Dimensions	208 x 244 x 759 mm (8.1 x 9.6 x 29.8 in)			
Deck Cable Length	20m (Standard)			
Depth Rating	50 m			
Weight (In Air)	20 kg (44 lbs)			
Input Voltage	48-60 VDC, 115-230VAC			
Power (Typical /Max)	55W / 70W			
Software	Windows based software included EdgeTech's Discover Bathymetric Acquisition and Sonar Control			
Data Products	Bathymetry, Backscatter and Side Scan Imagery, and Real Time Uncertainties			
* Across track resolution expressed as a beamwidth at nadir				
** Dependent on environmental conditions (i.e. absorption, reverberation, sea noise, etc.)				
*** Assumes a flat seafloor and dependent on environmental conditions				



For more information please visit EdgeTech.com