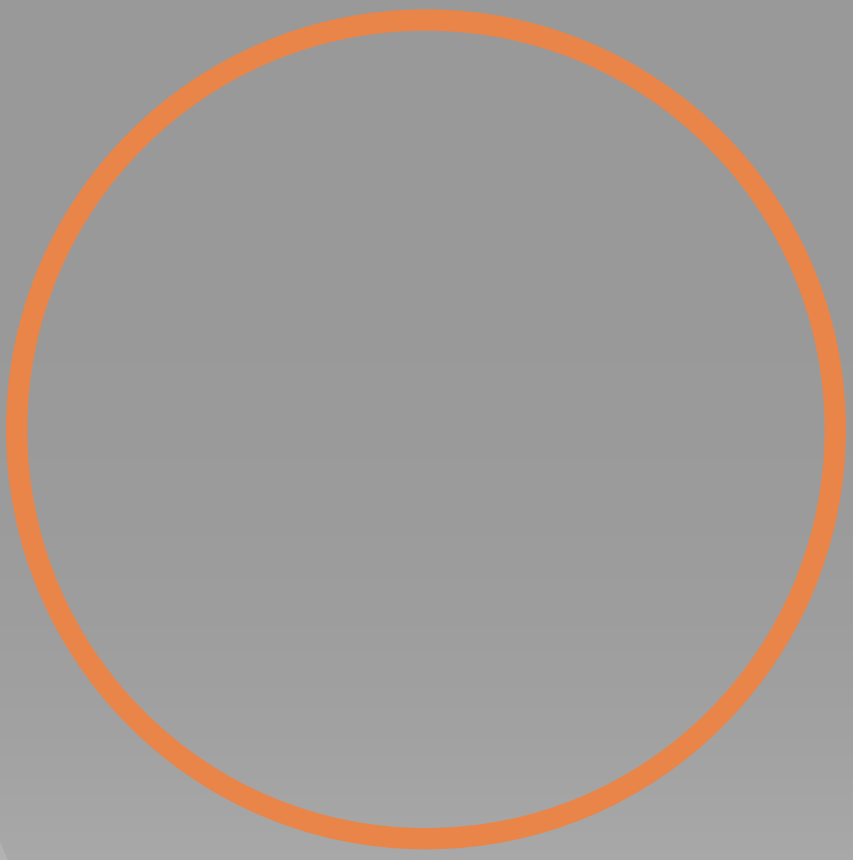
CHCNAV

APACHE 4

AUTONOMOUS HYDROGRAPHIC SURVEY USV



MARINE SURVEY
& CONSTRUCTION

ADVANCED NAVIGATION CONTROLLER

Integrated adaptive water flow straight -line and hovering technology

The autonomous control system enables APACHE 4 to navigate straight along the cross-section according to the profile view

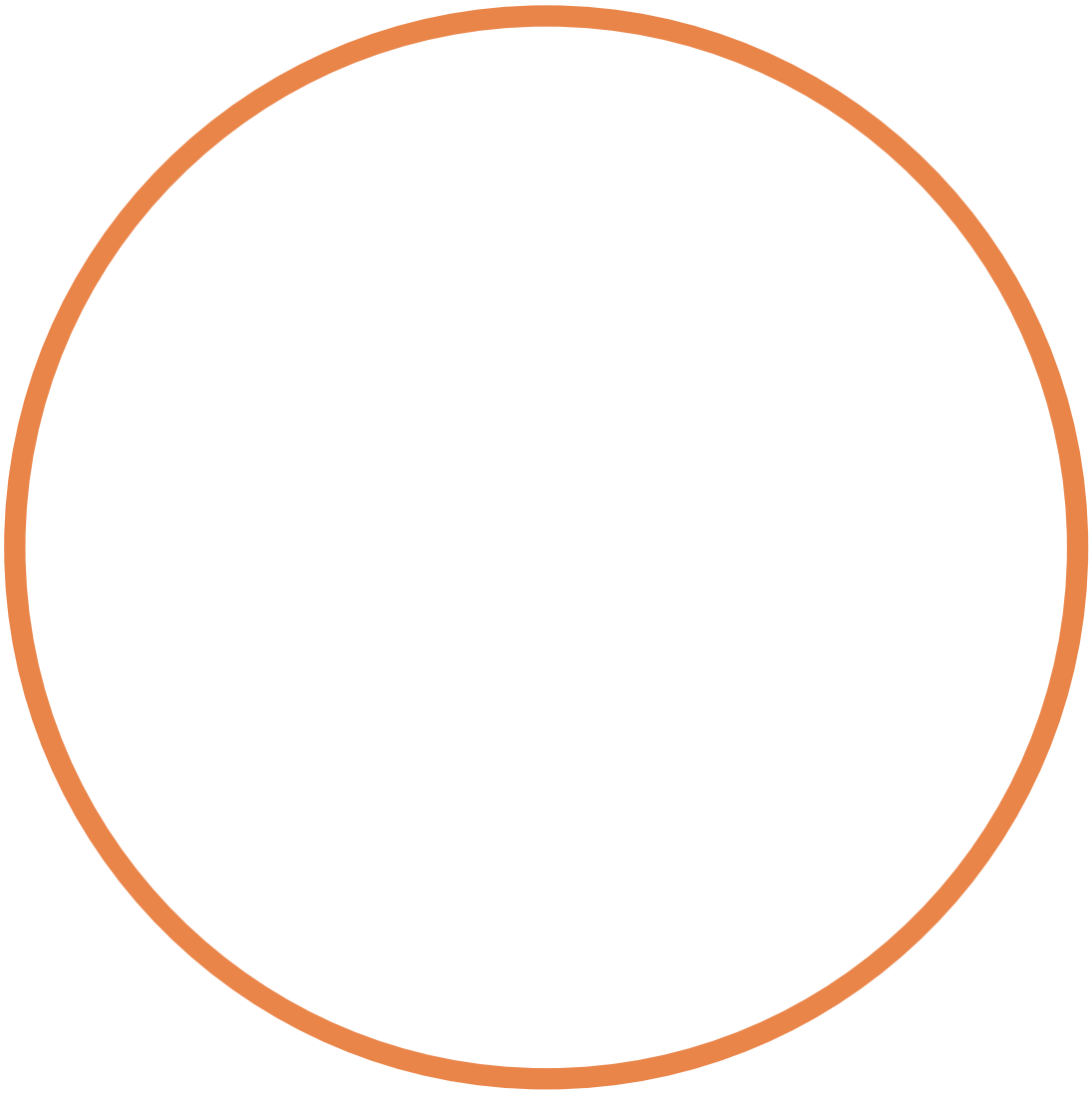
The hovering technology can make APACHE 4 hover stably in the turbulent flow at the

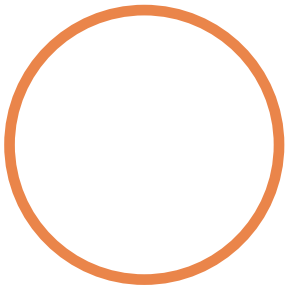
thereby improving the accuracy of flow

BUILT-IN SINGLE-BEAM ECHO SOUNDER

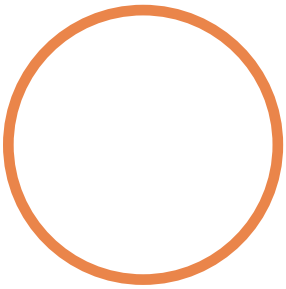
Single beam sounding data can be used to verify the accuracy of ADCP bottom tracking

EFFICIENT HYDROGRAPHIC SURVEY USV

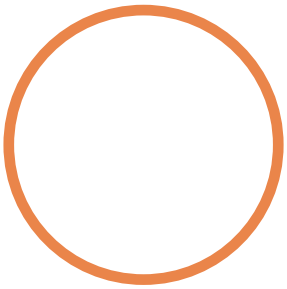




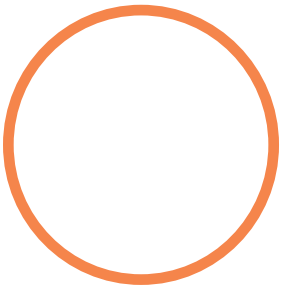
Millimeter wave radar



SBES Transducer



ADCP access shaft



Semi-embedded motor

SPECIFICATIONS

Physical

Hull dimension	
Anti-wave & Wind	rd nd wave level
Hull design	Triple-hull vessel
Water proof	
Draft	
	Two-color light
Camera	
ADCP Compatibility	navigable ADCP
	ADCP and sounder are equipped at the
Safe	
distance	

Power

Type	Electric
Propeller type	
Direction control	
Li-ion battery capacity	
, support hot-	

Communication

Data communication	

Interface

Navigation mode	
Water proof of master control	
Data storage	Local multi-sessions and FTP push

Positioning

Satellite system	
Channel	
Single point position	
accuracy	
DGNSS positioning accuracy	
accuracy	
Heading accuracy	
accuracy	

D270 Single Beam Echo Sounder

Data type	CHCGD original waveform
Weight	.
Sounding range	
Sounding accuracy	
Frequency	
Supply voltage	
Waterproof	

Software

Hydro Survey	post-processing support waveform
Auro Planner	

CHC Navigation Headquarter

CHC Navigation Europe