UAC-FLS100

Multibeam Forward Looking Sonar

500m Long Detection Range | Collision Avoidance
100kHz Imaging Sonar for medium and large underwater vehicles



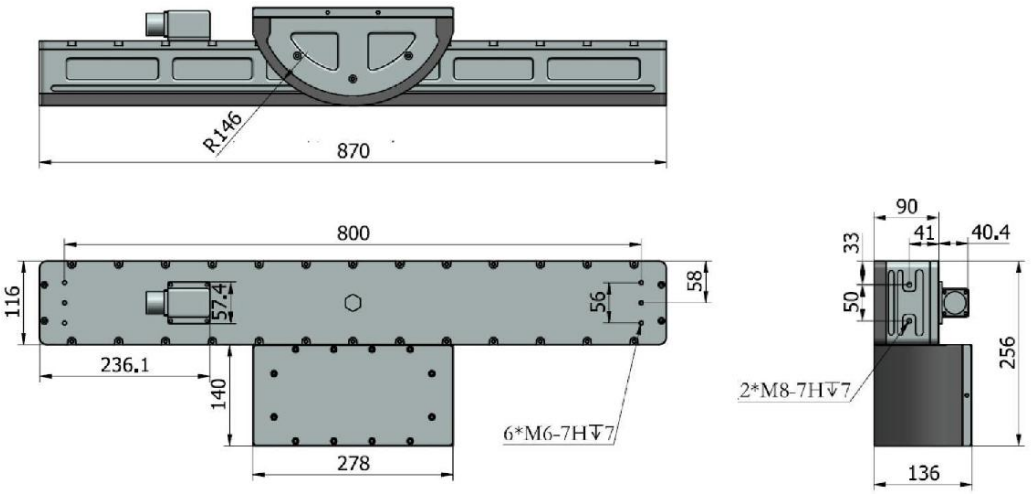
Overview

The UAC-FLS100 Imaging Sonar adopts multibeam imaging technology to generate acoustic images of suspended underwater targets and obstacles ahead of the sonar. All components are domestically manufactured, with fully self-controllable software and hardware. It meets the navigation assurance and target detection requirements of medium and large underwater vehicles.

Performance Features

- Long effective detection range
- Multibeam imaging principle
- Supports collision avoidance mode
- Fully domestic supply chain

Dimension Drawing

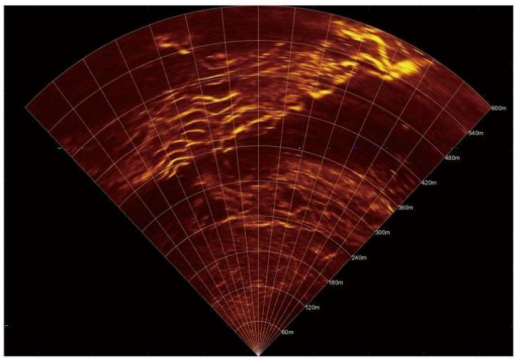


Website: https: //china-sonar.com/
E-mail: sales@china-sonar.com
Specifications subject to change without notice.
© 2026 China Sonar. Rev. May 2026

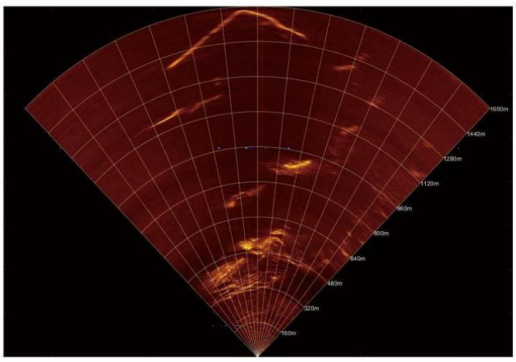
Tehnical Specifications

Item	Specification
Operating Frequency	Center frequency: 100 kHz
Angular Resolution	0.96°
Horizontal Field of View	105°
Vertical Field of View	26° in imaging mode, 7° in collision avoidance mode (adjustable)
Maximum Detection Range	≥500 m (for -15dB target under favorable hydrological conditions)
Range Resolution	3.75 cm
Communication Interface	100M / 1G adaptive Ethernet
Power Supply / Power Consumption	18~36 VDC, typical power consumption: 22 W
Maximum Operating Depth	600 m (customizable upon request)
Weight	30 kg (Titanium Alloy TC4)
Environmental Adaptability	Operating temperature: -10℃ ~ 50℃; Storage temperature: -40℃ ~ 70℃
Software Development	Control & display software and SDK available, supporting secondary development

Imaging Image



Open Water Imaging



Dam Imaging at 1300 m Range

Website: https: //china-sonar.com/
E-mail: sales@china-sonar.com
Specifications subject to change without notice.
© 2026 China Sonar. Rev. May 2026