UAC-FLS200D

Dual-Frequency Multibeam Forward Looking Sonar

500m Ultra-Range | Shallow & Turbid Water Ready
200kHz / 425kHz Imaging Sonar for ROV, AUV & USV



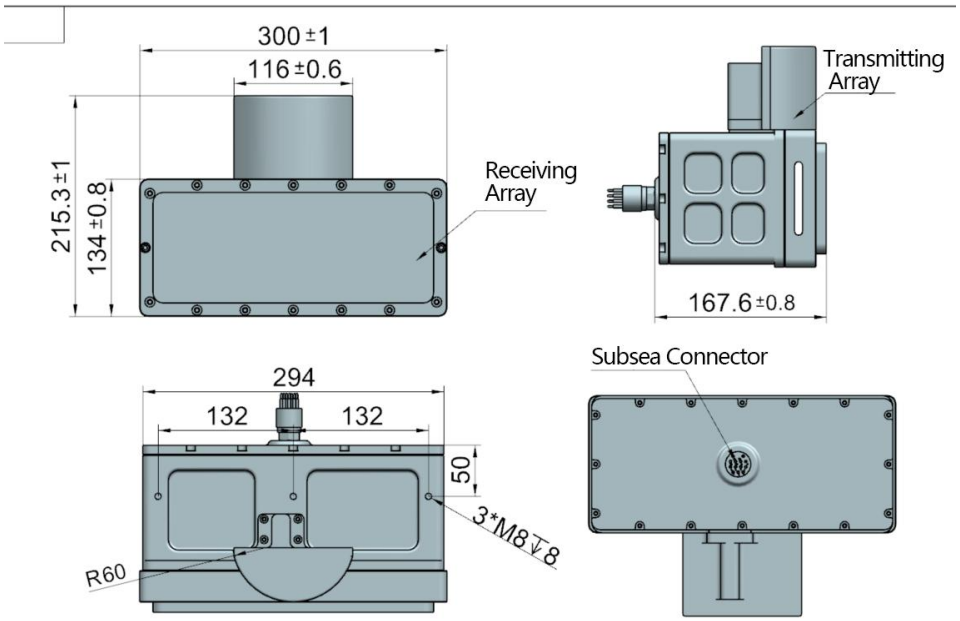
Overview

The UAC-FLS200D dual-frequency forward-looking sonar adopts real-time dual-frequency multi-beam imaging technology. It can simultaneously realize long-range detection and high-definition imaging recognition of suspended targets in the water ahead of the sonar. With an embedded processor, the unit features high integration and low power consumption, suitable for operations requiring both long-range detection and target identification.

Performance Features

1. Real-time simultaneous dual-frequency imaging
2. Integrated low-power processor
3. Full independent IP rights

Dimension Drawing

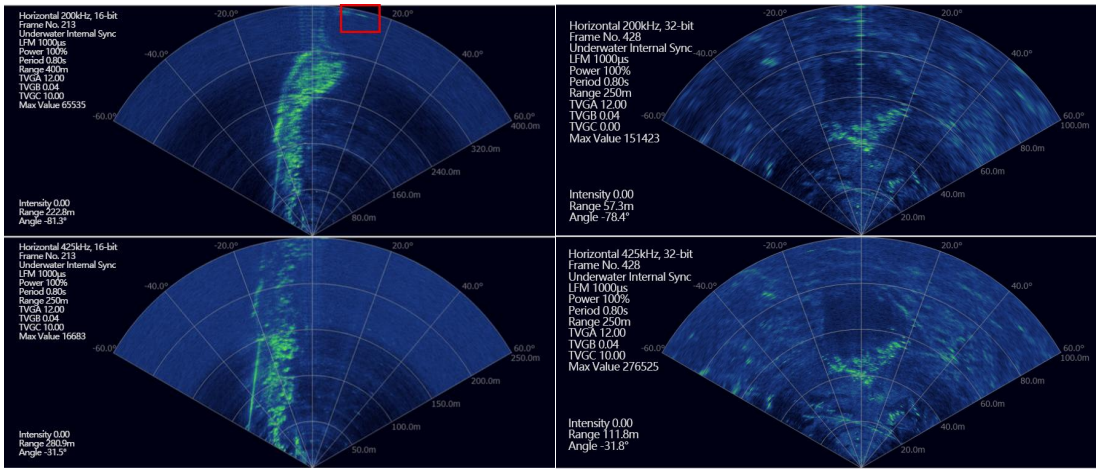


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Tehnical Specifications

Item	Specification
Frequency	Center Frequency: 200kHz / 425kHz, customizable frequency
Field of View	Vertical: 20°, Horizontal: 140° (Viewing angle)
Maximum Detection Range	≥500m @200kHz, ≥250m @425kHz
Range Resolution	≤2.5cm
Horizontal Center Beamwidth	1.6° @200kHz, 0.8° @425kHz (Angular resolution)
Communication Interface	100M / 1G auto-adaptive Ethernet
Power Supply / Power Consumption	18–30VDC, Typical power 40W
External Sync Interface	RS485
Maximum Operating Depth	100m, customizable up to 1000m
Dimension	≤300mm × 294mm × 167mm
Weight	≤10kg (in air)
Temperature	Operating: -10°C ~ +50°C; Storage: -20°C ~ +70°C
Software Development	Monitor software or SDK available, secondary development supported

Imaging Image



Terrain & Seabed Imaging Map

Close-Range Dual-Frequency Imaging Comparison

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