# UAC-500F

## Forward-looking Sonar 500kHz

## Overview

The UAC-500F forward-looking sonar adopts multi-beam imaging technology to achieve real-time high-resolution imaging of suspended objects or obstacles in the water ahead of the sonar. Boasting a compact size and highly integrated design, the product features fully independent and controllable software and hardware. It is suitable for meeting the navigation support or target detection needs of small and medium-sized underwater vehicles.

## Technical Specifications

| SPECIFICATIONS | |
|---|---|
| **Operating Frequency** | 500kHz (center), 30kHz (bandwidth) |
| **Beam Field of View** | 90° horizontal, 7° vertical |
| **Maximum Detection Range** | 150m (for -15dB targets under favorable hydrological conditions) |
| **Range Resolution** | 2.5cm |
| **Angular Resolution** | 0.8° |
| **Communication Interface** | 100M/1000M adaptive Ethernet |
| **External Sync Interface** | RS485 |
| **Power Supply/Power Consumption** | 18-30VDC, 24W (typical) |
| **Maximum Operating Depth** | 100m (customizable on demand) |
| **Dimensions** | 140×208×92.5mm |
| **Weight** | 2.4kg (5A06 aluminum alloy) |
| **Environmental Adaptability** | Operating temperature: -10℃~50℃;<br>Storage temperature: -40℃~70℃ |
| **Software Development** | Provides display and control software or SDK, supporting secondary development |



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## Key Features

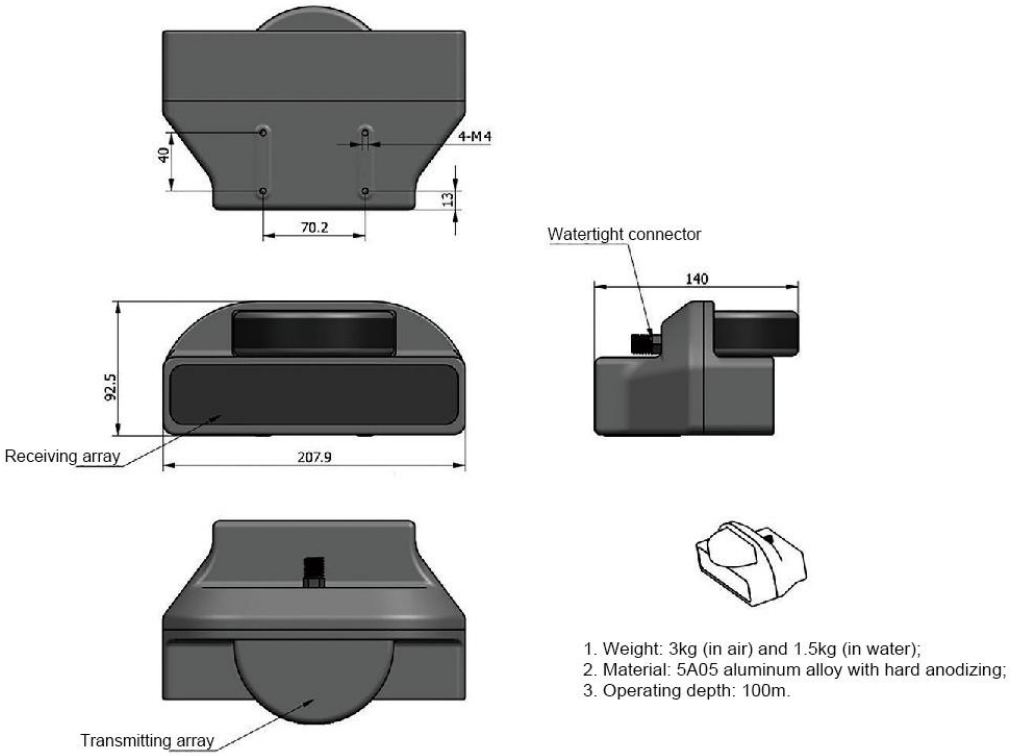
### Imaging Principle

Multi-beam High-Resolution Imaging Technology

### Compact Size

Compact Size with High Integration Level

## Structural Dimensions




1. Weight: 3kg (in air) and 1.5kg (in water);
2. Material: 5A05 aluminum alloy with hard anodizing;
3. Operating depth: 100m.



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