

UAC-700M

Mechanical Scanning Sonar 700kHz



Overview

The UAC-700M mechanical scanning sonar enables real-time underwater imaging through non-contact rotational scanning. It adopts digital Chirp technology, delivering high image resolution. The sonar supports secondary development or product customization to meet different customer requirements. Featuring a compact size and easy deployment, it is particularly suitable for navigation or underwater search applications on small autonomous vehicles or for diver handheld use.

Technical Specifications

SPECIFICATIONS	
Operating Frequency	Center frequency 700kHz, bandwidth 50kHz
Beam Angle	Horizontal 3.3°, Vertical 25°
Step Angle	0.9°, 1.8°, 3.6°
Scanning Angle	Maximum 360° (region scanning mode configurable)
Maximum Scanning Speed	10s (5m)
Maximum Detection Range	70m (-20dB target, good hydrological conditions)
Range Resolution	1.5cm
Communication Interface	RS422
Power Supply / Power Consumption	18~30VDC, typical power consumption 3.6W
Maximum Operating Depth	300m (customizable as required)
Dimension	Φ70mm×90mm (cable-out version available)
Weight	400g
Environmental Adaptability	Operating temperature -10°C ~50°C, storage temperature -40°C ~70°C
Software Development	Provide display and control software or SDK, support secondary development

Application

Hidden Pipe Investigation

Survey and Imaging in Ports, Rivers and Other Areas

Search and Rescue, Emergency Rescue

Structural Dimensions

