



ISE AURORA ACTIVE TOWFISH



The ISE Aurora is an actively stabilized Towfish that can accommodate a variety of wet and dry payloads.

Development of the new generation of commercialized ISE Aurora Towfish was recently completed. The vehicle design is modular, allowing the hull to accommodate wet and dry payloads of varying sizes. Aurora Towfish has been designed with a large, actively controlled main wing to control depth. The large downforce created by the wing reduces the cable scope and layback, particularly with unfaired cables, enhancing the positional accuracy of the Towfish. Active tail planes control Towfish attitude and stability. A mounting rail for sonar arrays is fitted to the bottom of the Towfish making it possible to accommodate a broad number of sonars. The Aurora Towfish is designed to operate at speeds of up to 12 knots.

Towfish Specifications

Length:	3.3 m – 4.2 m (configurable)
Diameter:	40.6 cm
Overall Height:	1235 cm (tow point attachment to lower aft plane)
Wing Span:	2.43 m (wings easily removed for on-deck maintenance and storage)
Weight:	380 - 560 kg
Speed:	5 -12 knot towing
Depth Rating:	200 m
Propulsion:	Surface tow
Power:	380 VDC or 460 VAC single phase supplied from the surface PDU down the tow cable
Supervisory Control:	<ul style="list-style-type: none"> ◆ Surface console is a PC running ISER's standard user interface software ◆ Communications link is Ethernet network connection.
Onboard Control:	CPCI
Navigation Sensors:	<ul style="list-style-type: none"> ◆ Watson Industries gyro or iXSea PHINS ◆ Paroscientific depth sensor ◆ Teledyne RDI DVL
Example Route Survey Payload:	<p>L3 Klein 5900, R2SONIC 2024.</p> <p><i>(Rails on the bottom of the pressure hull provide additional wet payload capacity, 150 kg of combined wet and dry payload weight depending on the vehicle trim. Payload capacity is configurable with the addition of modular hull sections).</i></p>