ARV-i
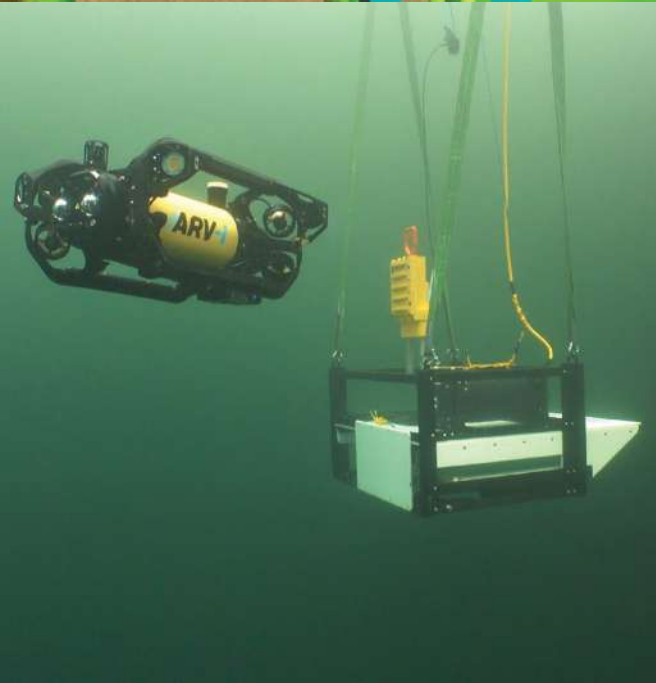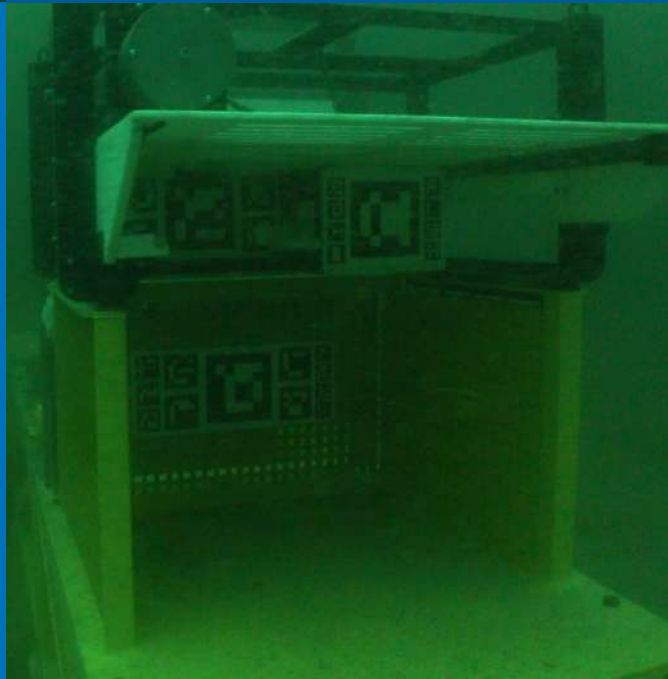
ARV-i options

- Multibeam imaging sonars
- Grabbers, cutters, brushing tools
- Environmental sensors (fluorometer, CO_2 and CTD, hydrophone, etc.)
- Laser scalers
- Resident dock

Optional tether operation

- Fibre-optic tether
- Control console with 17" 4K display
- Three joysticks for easy control
- Switch between manual and autonomous operation
- Flexible 10-28V DC / 100-240V AC power

ARV-i

Features

Programmable Autonomous Operation

The ARV-I can be programmed to follow waypoints based on GPS coordinates, altitude, depth, with return to dock or base options in the event of loss of position.

Integrated Sensors

The ARV-i can make use of optional USBL, DVL, stereo machine vision cameras (front and rear) for navigation. Future navigation support is planned for multibeam sonars.

4K main camera

A 4K main camera complemented by up to 4 machine vision cameras (2 stereo pairs) for navigation, ensures great resolution and excellent machine vision.

High capacity battery

600Wh, up to eight hours runtime, 6km range.

Optional Underwater Resident Dock

An optional dock allows the ARV-I be resident underwater with wireless charging and data transfer.

Extremely stable & manoeuvrable

Position ROV at any angle even in current.

High CRI dimmable lights

Dual dimmable 8,500-lumen lights (17,000 lumens total), optional rear lighting.

Light & portable

Air travel friendly using multiple 100Wh batteries, 25kg ensures stability while being person portable.

Made to last

Hard anodised aluminium, 1000m rated penetrations, user replaceable thrusters, fault-tolerant design.

ARV-i

Next-generation resident underwater drone for offshore industries.

ARV-i is an entirely new class of underwater observation vehicle, combining cutting-edge technologies from both Boxfish Robotics (underwater vehicles, photography and robotics) and Transmark Subsea (underwater power and communications infrastructure and systems). Applications abound in offshore industries that require underwater. observation and inspection, including energy, oil and gas, wind farms and aquaculture.