

Specification

The Specification (to be completed and incorporated into the Invitation to Quote Document)

Please note: This document should be tailored to the project requirements. The level of detail within the specification should adequately reflect the nature of the project requirements. Some of the information may not be necessary and can be omitted.

Project Title:	Solway Coast and Marine Project – Landscape Connections – Purchase Underwater ROV
Service:	Economy and Infrastructure Environment and Sustainability Team
Project Owner:	Nick Chisholm

1	INTRODUCTION
The Solway Coastal and Marine Project – Landscape Connections (SCAMP) is an ambitious seascape restoration project running the entire length of the Dumfries and Galloway coastline, principally working to restore a number of key habitats: coastal woodland; coastal burns; sand dune systems; saltmarsh; sea grass meadow; and native oyster reef. As well as the key habitat restoration ambitions we will be undertaking education and community programmes, all with the aim of making our coastal habitats and communities more resilient to future climate challenges. The project is in its early stages and is scheduled to last at least ten years. SCAMP is a partnership composing of leading environmental NGOs including, Solway Firth Partnership, Dumfries and Galloway Woodlands, Galloway Rivers Trust, Crichton Carbon Centre, RSPB, Galloway and South Ayrshire Biosphere and Southern Upland Partnership with Dumfries and Galloway Council undertaking a leadership and facilitatory role. We wish to purchase a single small underwater ROV to be used for film, photography, sampling and survey by a solo operator, from either the shore or a boat. In addition, the device will be used to live stream footage to audiences ranging from large crowds at festivals or events on large screens and to groups of children involved in environmental education. Suppliers should read the specification list as this will be the principal way in which we decide what product we are buying. It is critical, for example, that whichever product we chose that it has a long lifetime and is not likely to become obsolete in the next couple of years. It is also likely that our partners may be purchasing similar or compatible equipment, therefore it is critical that the device we chose is adaptable and useable on multiple platforms. As the utility of the device is critical we will be scoring this tender on a 70:30 basis of quality against price to make sure we get best value.	

2 BACKGROUND

We do have a total budget of circa £15,000 for the device and additional compatible 'tools' (exclusive of VAT).

We wish the device to be with our team by the end of August 2026

We must be able to work with the supplier for additional items and aftermarket adaptations during the lifetime of the device

3 Specification

The device will be:

We understand that some of this may not be possible within the price band we are purchasing at and instead be aftermarket considerations. An indication of the price of these aftermarket items with the budget submitted is required.

- Usable from a boat or shore
- Intuitive and user friendly
- Have both an independent power source or sources and the ability to run from a separate 12v power source such as an onboard boat battery.
- The ability to use both aftermarket and manufacturer tools such as additional cameras, location identification, additional lighting and sampling equipment
- The ability to have multiple tools and accessories installed at any one time
- The ability to take 4k high frame rate video footage
- Collected data must be high-quality and steady enough to generate 3D photogrammetric models of the oyster reefs. The ability to stream high-quality video footage to an external device – suitable for live streaming.
- The ability to take high quality still images
- Have a high output light source to highlight the subject
- Have adequate illumination to be able to work in low light and highly sedimented conditions
- Able to accurately measure the physical size of objects on the seafloor.
- Able to stabilise and hold its position in the water column at an exact depth, even in shifting currents
- Able to precisely log the exact geographic coordinates, ensuring the exact same location can be found to carry out repeat surveys year after year.
- Able to avoid stirring up the muddy seabed.
- Adaptable, modular architecture. The core platform must allow the integration of auxiliary sensors or tooling later down the line (e.g., multi-beam sonars, environmental sensors, or manipulator arms) to support different survey types without requiring a complete system replacement.
- Be usable in a marine environment to depths exceeding 50m
- Be usable at ranges of up to 100m

The supplier will

- Offer a speedy aftersales service
- Be able to support and install modifications requested by the client after discussion
- Offer or sign post basic training to client.

The product must be delivered to Dumfries and Galloway Council by the end of August 2026
SCAMP@dumgal.gov.uk

a) Fees and Costs

We have allowed circa £15,000 for the purchase of this device including delivery (exclusive of VAT).
We would welcome an indication of annual servicing costs and indications on costs for accessories

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