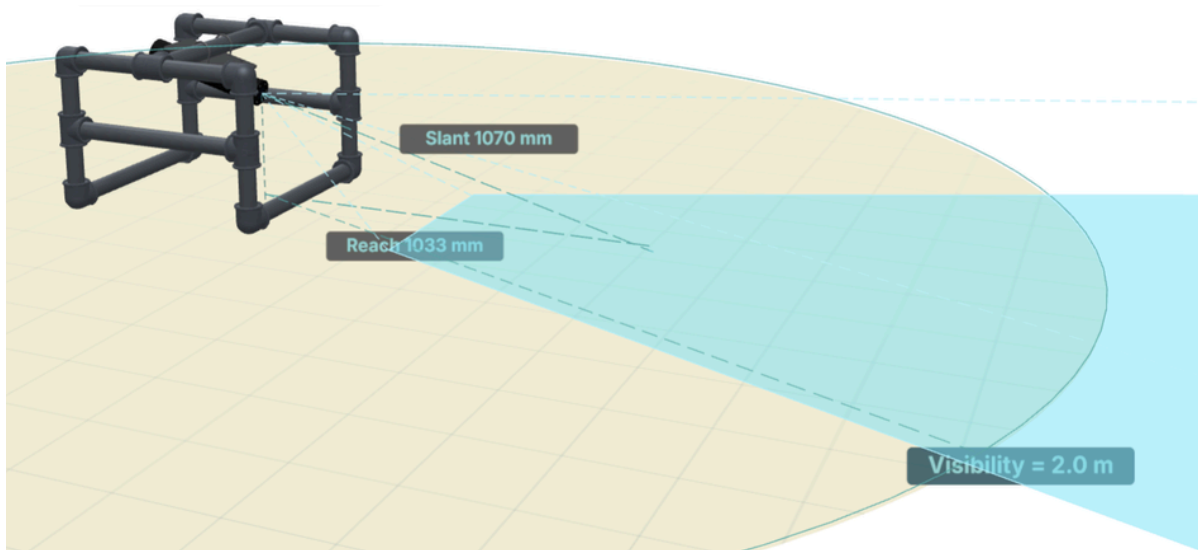


Mooring Guide for benthic SubCam deployment

Updated May 2026 by C Berger (v2)

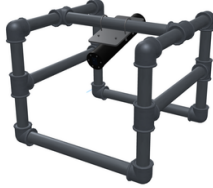
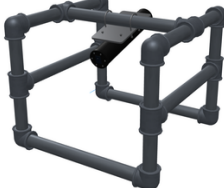
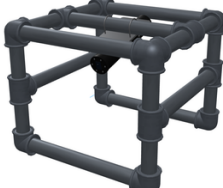
Camera Configuration

The SubCam is mounted on the central crossbar of a galvanised steel pipe 'Microlander' frame. Camera tilt, field of view, seabed slant range and reach are configured before deployment. The example below shows a typical near-shore configuration at -15° tilt with 2 m water visibility. SubCam cameras give a Field of View of 100° horizontally and 60° vertically. The image below shows the central focus and projected field of view onto the seabed relative to the visibility range.



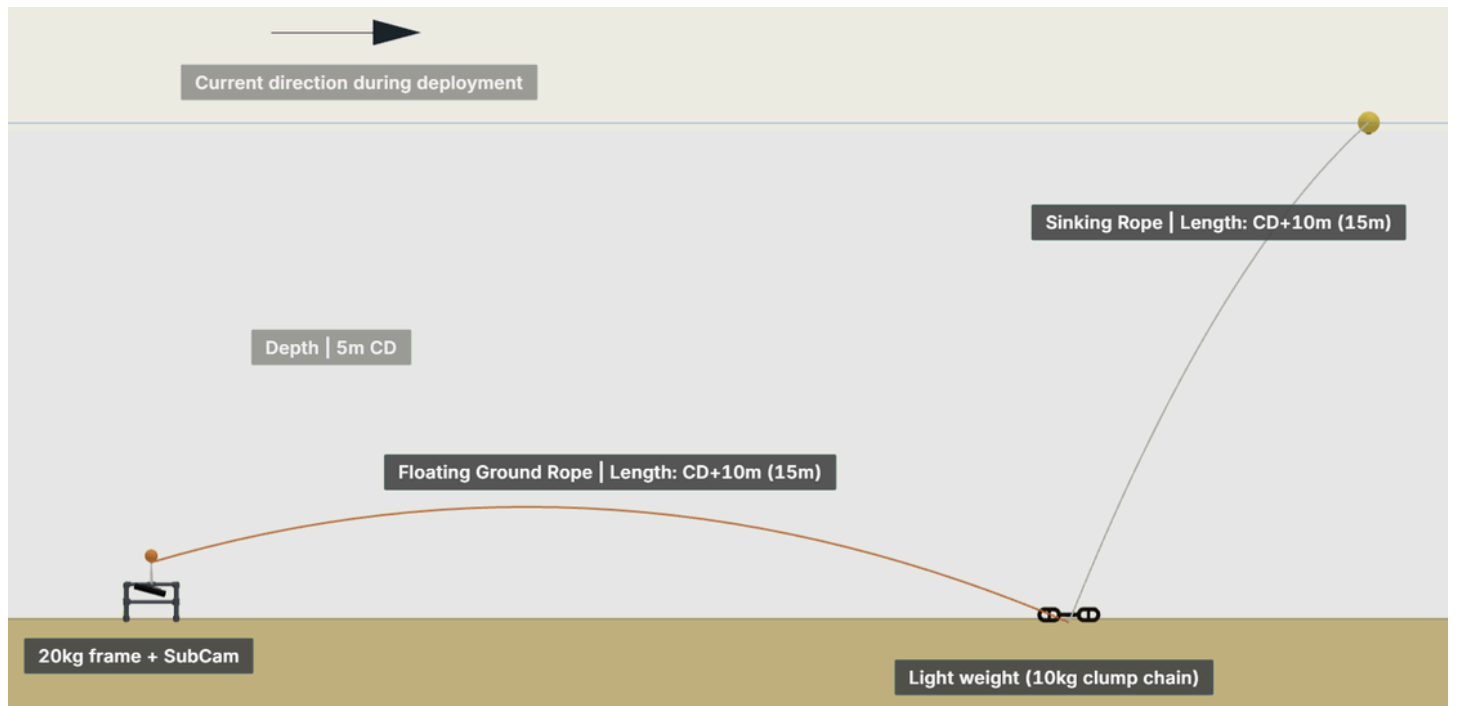
Frame configuration examples by exposure

Recommended microlander dimensions 500 mm length \times 500 mm width \times 350 mm height are chosen to trade off easy handling, weight, stability and field of view of camera onto the seabed. Tube diameter, total weight and bracing increase with exposure rating. All three tube sizes are standard stock at online metal suppliers (e.g. themetastore.co.uk).

Exposure	Low	Med	High
Image			
Weight (frame + SubCam)	13.7 kg	21.1 kg	33.2 kg
Tube diameter	33.7 mm	42.4 mm	48.3 mm
Est. price* (inc VAT)	~£80	~£120	~£163
Additional guard rails	n/a	n/a	Included

Low Exposure Mooring Example

Example: 5 m depth | <2m wave height | <1m/s current speed

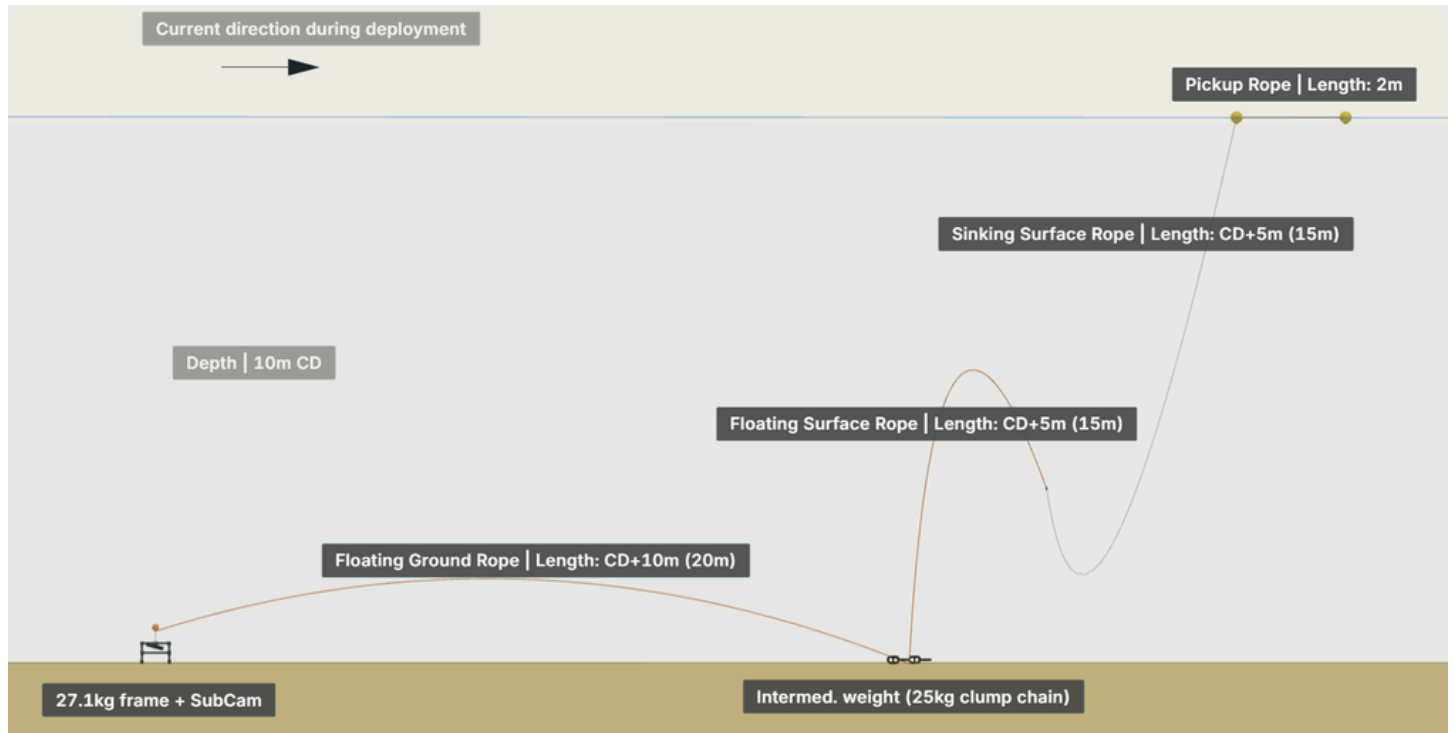


Bill of Materials for low exposure example

Component	Qty / Length / Supplier	Cost inc VAT (May 2026)
Low exp. microlander frame	33.7 mm galv. tube, 500 × 500 × 350 mm 11 tubes / 14 key clamp fittings themetastore.co.uk	£79.52 (£15 shipping)
Floating ground rope (orange)	14mm Polysteel, 15m gaelforcemarine.co.uk	£5.31 (Sold in 220m length at £77.91, £20 shipping)
Mooring clump chain	10 kg Used 42 - 44mm stud link chain E.Y.E. Marine Ltd.	£9.50 (£70 shipping)
Sinking up-line rope	14mm Polysteel Leaded, 15m gaelforcemarine.co.uk	£14.18 (Sold in 220m length at £208.43, £20 shipping)
Surface buoy	Polyform A0 Net Buoy 30" diam gaelforcemarine.co.uk	£20.36 (£7 shipping)
TOTAL		£128.87 (marginal cost)

Med Exposure Mooring Example

Example: 10 m depth | <5m wave height | <2m/s current speed

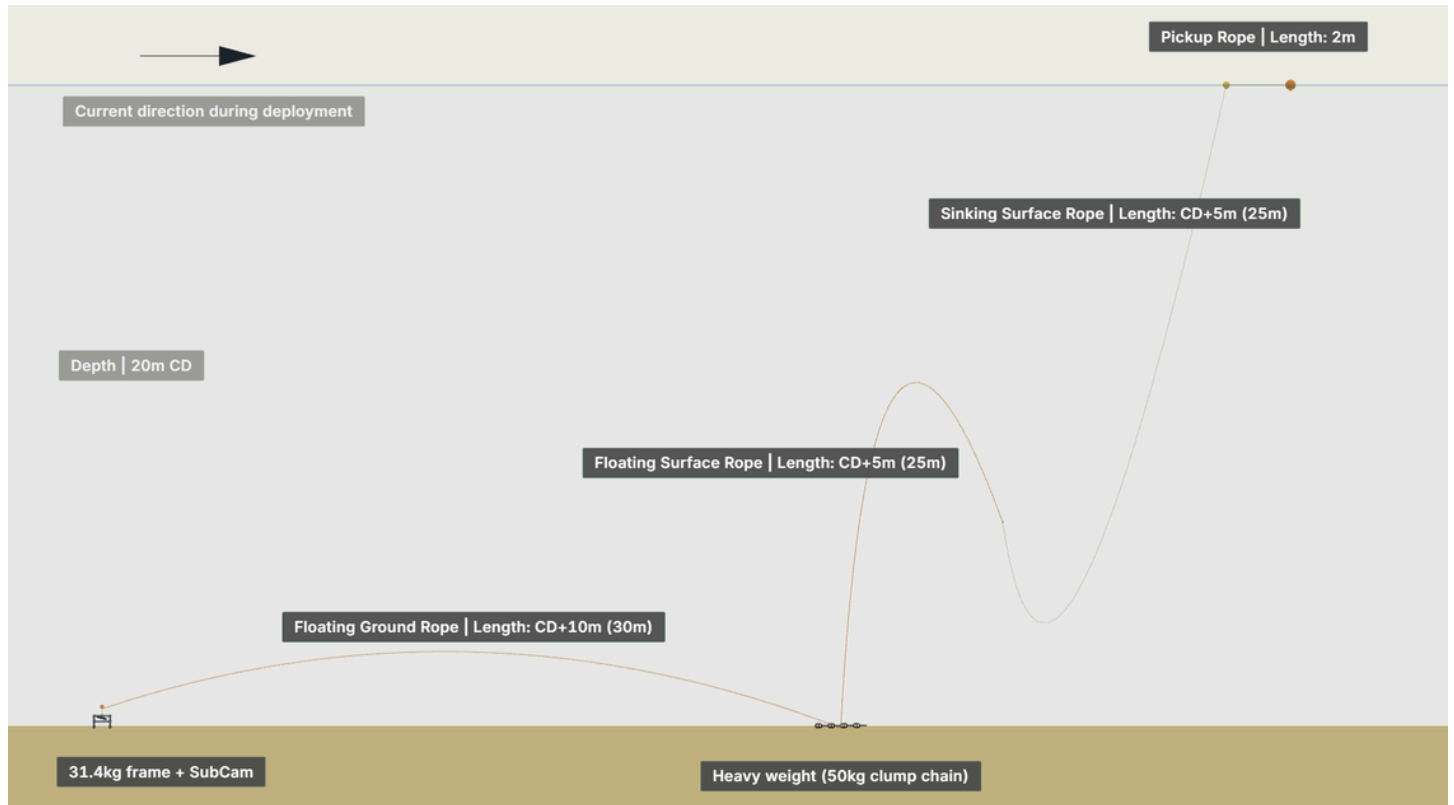


Bill of Materials for med exposure example

Component	Qty / Length / Supplier	Cost inc VAT (May 2026)
Med exp. microlander frame	42.4 mm galv. tube, 500 × 500 × 350 mm 11 tubes / 14 key clamp fittings themetastore.co.uk	£120.20 (£15 shipping)
Floating ground rope (orange)	14mm Polysteel, 20m gaelforcemarine.co.uk	£7.08 (Sold in 220m length at £77.91, £20 shipping)
Mooring clump chain	25kg Used 42 - 44mm stud link chain E.Y.E. Marine Ltd.	£23.75 (£70 shipping)
Sinking up-line rope	14mm Polysteel Leaded, 15m gaelforcemarine.co.uk	£14.21 (Sold in 220m length at £208.43, £20 shipping)
Floating surface rope	14mm Polysteel, 15m gaelforcemarine.co.uk	£5.31 (Sold in 220m length at £77.91, £20 shipping)
Surface buoy rope	14mm Polysteel, 2m gaelforcemarine.co.uk	£0.71 (Sold in 220m length at £77.91, £20 shipping)
Surface buoys	2x Polyform A0 Net Buoy 30" diam gaelforcemarine.co.uk	£40.72 (£7 shipping)
TOTAL		£211.95 (marginal cost)

High Exposure Mooring Example

Example: 20m depth | <10m wave height | <4m/s current speed



Bill of Materials for high exposure example

Component	Qty / Length / Supplier	Cost inc VAT (May 2026)
High exp. microlander frame	48.3 mm galv. tube, 500 x 500 x 350 mm 13 tubes / 14 key clamp fittings themetalstore.co.uk	£163.72 (£15 shipping)
Floating ground rope (orange)	14mm Polysteel, 30m gaelforcemarine.co.uk	£10.62 (Sold in 220m length at £77.91, £20 shipping)
Mooring clump chain	50 kg Used 42 - 44mm stud link chain E.Y.E. Marine Ltd.	£47.50 (£70 shipping)
Sinking up-line rope	14mm Polysteel Leaded, 25m gaelforcemarine.co.uk	£23.68 (Sold in 220m length at £208.43, £20 shipping)
Floating surface rope	14mm Polysteel, 25m gaelforcemarine.co.uk	£8.85 (Sold in 220m length at £77.91, £20 shipping)
Surface buoy rope	14mm Polysteel, 2m gaelforcemarine.co.uk	£0.71 (Sold in 220m length at £77.91, £20 shipping)
Surface buoys	1x Polyform A0 Net Buoy 30"circ 1x Polyform A1 Net Buoy 40"circ gaelforcemarine.co.uk	£46.99 (A0: £20.36, A1: £26.63, £7 shipping)
TOTAL		£302.07 (marginal cost)