

SeaSensor

Advanced Underwater Sensor

CatchCam
TECHNOLOGIES

SeaSensor is a robust, high-performance underwater sensor designed for accurate monitoring in the harshest marine environments.



Key Features

- Built for Harsh Conditions
- Automated Data Collection
- Quick and Easy Data Transfer
- 300m or 800m Depth Rating
- Easy to Attach and Deploy
- Extended Battery Life.

Depth Rating	300m and 800m variants
Sensor Capabilities	Depth, temperature, turbidity, light intensity, immersion, and motion.
Battery Life	30+ days (1 sample/minute) or up to 60 days with reduced sampling rates
Connectivity	Bluetooth for data transfer.
Data Output	Data can be exported as timestamped .CSV format for analysis.
Mounting Options	Versatile configurations for gear or research setups. Ask our team about mounting options.
Activation	Automatic upon immersion to optimise battery life.

Sensor Characteristics

Temperature Sensor	Range: -40 to 125 °C (-40 to 257 °F)
	Absolute Accuracy: ±0.1 °C (between -5 to 50 °C); ±0.5 °C (between -40 to 125 °C)
	Response Time: 1 second in 0.5 m/s flow; 2 seconds in still water
Depth Sensor	Range: 0–100 bar
	Resolution: 3 mbar (3 cm)
	Absolute Accuracy: ±500 mbar (5.1 m)

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Light Sensor	Range: 0–140 klx
	Resolution: 0.0042 lx
Turbidity Sensor	Range: 0 – 500 FTU
	Resolution: 0.1 FTU
	Absolute Accuracy: ±1 FTU
Motion Sensor*	Gyroscope Range: ±2000 dps (degrees-per-second)
	Accelerometer Range: ±16 g
	Compass Range: ±4900 µT
Immersion Sensor**	Set to 2.5 meters

** Immersion Sensor returns time stamp that sensor enters and exits the water.

* Additional motion sensor parameters available on request.

Mechanical Characteristics

Product	Size	Weight in air	Depth Rating or (IP) rating	Operating Temperature
Sensor Node	70 x 70 x 163mm (73.2mm diameter)	520g	300m (984 ft, 164 fathoms) or 800m	Min: 0°C (32°F) Max: 55°C (131°F)
Enclosure	100 x 100 x 187mm	430g	N/A	Min: 0°C (32°F) Max: 55°C (131°F)
Charger	116 x 111 x 115mm	630g	IP67	N/A
Remote Control	60 x 155 x 10 mm	67 g	IP67	N/A

Electrical Characteristics

Internal Battery	Lithium Ion battery (3.7V, 5200mAh)
Charger	220V input, 9V output

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www.catchcam.co.uk
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10 Outlands Road, Cottingham, England, HU16 4PP