Currents
ADCP Buoy

HIGH-PRECISION MONITORING

The Obscape **ADCP Buoy** integrates Obscape wave buoy technology with industry-leading *Nortek AquaDopp Range* sensors for autonomous data capture. Designed for deployment in harsh marine environments, these buoys can withstand extreme weather conditions enabling seamless real-time monitoring of the water column data anywhere.

Engineered for versatility, the **ADCP Buoy** supports profiling ranges up to 90m. Data is easily accessible via the **Obscape Data Portal**, offering instant access to reliable, high-precision data.

500 mm

Image may vary from actual product

KEY FEATURES

01 **Comprehensive Data:** Accurate current data

02 **Reliable Connectivity:** Data transfer via cellular networks and/or satellite

03 **Easy Deployment:** Lightweight, easy to handle and transport, quick start up

04 **Sensor Versatility:** Select the sensor for your needs

05 **Integrated Data Portal:** User-friendly portal for efficient data management and analysis

PURCHASE INCLUDES

- Free access to the **Obscape Data Portal**
- SD card: can run in offline mode
- SATCOM communication: 3 months free line rental and 5,000 satellite communication credits included

Optional: Mooring
Incl. s/s chain, line, s/s in-line weights & floats
Excl. anchor.
Alternatively: Mooring can be constructed using the *Obscape Mooring Guideline*

ADCP BUOY TECHNICAL SPECIFICATIONS

SPECS	
BUOY DIMENTIONS	500 mm diameter x 350 mm height
BUOY WEIGHT	15 kg
PRIMARY POWER SOURCE	Solar-powered, 7 Watt
CONNECTIVITY	Cellular (4G with 2G fallback) and satellite (Iridium)
CELLULAR DATA LOAD	~8 kB per message
SATCOM DATALOAD	1 credit per message
REAL-TIME DATA INTERVAL	5 minutes - 24 hours (User selectable)
BATTERY TYPE	1 x Lithium-ion battery
NOMINAL VOLTAGE	3.7 V

PARAMETERS	
SAMPLE INTERVAL	5 - 60 minutes (User selectable)
TELEMETRY DATA QUEUE	In the event of temporary connection outages, a data queue ensures data is sent
DIAGNOSTIC PARAMETERS	Sensor inclination, battery voltage, signal strength, internal temperature

SENSOR	
SENSOR OPTIONS	Nortek AquaDopp range

DATA OUTPUT	
PARAMETERS	Data output is dependant on selected sensor type and required parameters*

DATA STORAGE	
CLOUD STORAGE	Free access to the **Obscape Data Portal** for real-time and historical data, sensor configuration, alerts
ON-BOARD SD CARD	Data stored to the on-board SD card as a backup - or for cases where data connection is absent

*DATA OUTPUT ALTERNATIVES

	AQUADOPP 400 KHz	AQUADOPP 600 KHz	AQUADOPP 1.0 Mhz	AQUADOPP 2.0 MHz
Maximum profiling range	60-90m	30-40m	12-25m	4-10m
Cell Size	1 - 8m	1 - 4m	0.3 - 4m	0.1 - 2m
Beam Width	3.7°	3.0°	3.4°	3.7°
Number of beams	3	3	3	3
Water pressure	✓	✓	✓	✓
Water temperature	✓	✓	✓	✓
Horizontal velocity profile	✓	✓	✓	✓
Vertical velocity profile	✓	✓	✓	✓
Beam amplitude	✓	✓	✓	✓
Depth average velocity	✓	✓	✓	✓
Depth averaged	✓	✓	✓	✓
Flow direction	✓	✓	✓	✓

DATA ACCESS

SEAMLESSLY CONNECT FIELD DATA & OFFICE OPERATIONS

01 **Real-time data:** Water quality data

02 **Download:** CSV file, graphs, PDF report

03 **Forwarding:** JSON API or HTTP post

04 **Notifications:** Online/offline, battery level, parameter threshold exceedance

CONTACT US

E-mail: info@obscape.com
Website: www.obscape.com