



SPOTTER™

Technical Specifications

SIZE AND WEIGHT

EXTERNAL DIMENSIONS [W X H]	42cm x 31cm (16.4in x 12.2in)
WEIGHT (WITHOUT EXTERNAL BALLAST CHAIN)	5.4kg (12lbs)
STAINLESS STEEL BALLAST CHAIN WEIGHT	2.174kg (4.79lbs)

CONNECTIVITY:

CONNECTIVITY	Iridium SBD (satellite)
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BATTERY AND POWER:

PRIMARY POWER SOURCE	Solar Powered, 5x 2 Watt, 6 Volt solar panels
BATTERY	Lithium-ion, capacity 11,200 mAh, 3.7v (rechargeable)




MOTION SENSING:

MOTION DATA FORMAT:	x (easting), y (northing), z (vertical, positive up), latitude (deg), longitude (deg)
WAVE FREQUENCY RANGE:	0.03-1 Hz (30s to 1s)
WAVE DIRECTION RESOLUTION:	0 - 360 degrees (full circle)
SAMPLING RATE:	2.5 Hz (Nyquist @ 1.25Hz)
WAVE DISPLACEMENT ACCURACY:	Approximately +/- 2cm accuracy depends on field of view, weather conditions, and GPS system status.
CALIBRATION:	Not needed, ever.

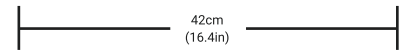
DATA STORAGE:

 ON-BOARD (SD CARD)	Records time series of 3D displacement data, ships with 16GB (256GB MAX capacity), FAT16 or FAT32 Format required
 CLOUD STORAGE (ONLINE DASHBOARD) Click here to demo	Access to online account that includes: Real-time and historical data outputs, Spotter configurations, alerts, maps and two-way communication.

DATA OUTPUTS:

	 STANDARD MODE	 SPECTRUM MODE	 ON DEVICE
SIGNIFICANT WAVE HEIGHT	X	X	X*
PEAK PERIOD	X	X	X*
MEAN PERIOD	X	X	X*
PEAK DIRECTION	X	X	X*
MEAN DIRECTION	X	X	X*
PEAK DIRECTIONAL SPREAD	X	X	X*
MEAN DIRECTIONAL SPREAD	X	X	X*
VARIANCE DENSITY SPECTRUM		X	X
DIRECTIONAL MOMENTS (a1, b1, a2, b2)		X	X
3D DISPLACEMENT TIME SERIES @ 2.5 Hz (x,y,z)			X
WIND SPEED	X		
WIND DIRECTION	X		
DRIFT SPEED			X*
DRIFT DIRECTION			X*
GEOGRAPHICAL COORDINATES (lat, lon)	X	X	X*

* Can derive from SD card data.



OTHER

SYSTEM MONITORING	Battery power status
ADVISED MOORING DEPTH	Any depth
Visibility LED	1 flash every 2.5 seconds, at least 1 mile visibility under normal conditions.
FIRMWARE UPGRADE	Standard micro-USB (cable included)
USABILITY	Magnetic on/off switch, Run/Idle mode, user LED's and integrated grab handles.