

\$4,900 USD

Spotter Technical Specifications

EXTERNAL DIMENSIONS [W X H]	42cm x 31cm (16.4in x 12.2in)
WEIGHT	5.3kg /11.6lbs (7.4kg /16.3lbs with external ballast chain)
CONNECTIVITY	Iridium SBD (satellite)
PRIMARY POWER SOURCE	Solar Powered, 5x 2 Watt, 6 Volt solar panels
BATTERY	Lithium-ion, capacity 11,200 mAh, 3.7v (rechargeable)
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.
SEA SURFACE TEMPERATURE (SST):	±0.1°C absolute accuracy ±0.02°C resolution
CALIBRATION:	Not needed, ever.
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) Access to online account that includes:	Real-time and historical data outputs, Spotter configurations, alerts, maps and two-way communication.

DATA OUTPUTS:

* Can derive from SD card data.

 standard mode
  spectrum mode
  on device

	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
SEA SURFACE TEMPERATURE	X	X	X
WIND SPEED	X	X	
WIND DIRECTION	X	X	
DRIFT SPEED			X *
DRIFT DIRECTION			X *
GEOGRAPHICAL COORDINATES (lat, lon)	X	X	X *

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 grab handles.

