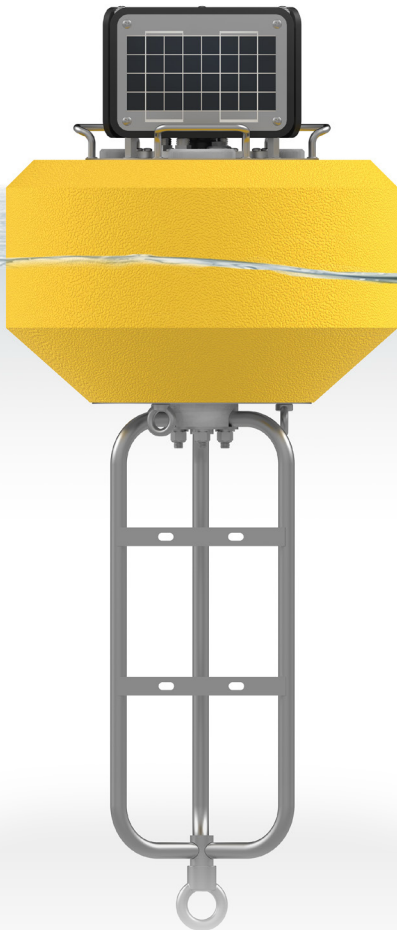


CB-75-SVS

WAVE BUOY

- Integrated SVS-603HR wave sensor
- Wi-Fi, 4G LTE & Iridium satellite telemetry options
- Supports a variety of environmental sensors
- Autonomous battery & solar power
- Rugged polymer-coated foam hull



The **CB-75-SVS** Wave Buoy offers the latest in real-time wave observations in a compact, affordable, and easy to deploy platform. At 21" (53.34cm) hull diameter and 49 lb. (22.23kg) weight, it's ideally suited for tethered moorings. The buoy accurately measures wave height, period, direction, and more using SeaView Systems' industry-leading **SVS-603HR** sensor, relied upon in buoy networks by NOAA and many others throughout the world. External sensor ports with wet-mate connectors support GPS, meteorological, and water quality sensors for maximum flexibility.

The buoy is constructed of an inner core of cross-linked polyethylene foam with a tough polyurea skin. A rechargeable battery with integrated solar panels powers the wave buoy continuously, and all electronics are housed in a quick-removable waterproof package with wet-mate connectors. A removeable instrument cage serves as counter-ballast and supports instrument mounting, while three 1.5" (3.81cm) pass-through holes facilitate cable routing of underwater sensors.

Available with integrated Wi-Fi, 4G LTE or Iridium satellite communications, the **CB-75-SVS** Wave Buoy sends data in real-time to the cloud-based **WQData LIVE** datacenter. In the Basic tier, this free service allows users to securely access and analyze data, as well as share data through an auto-report. Subscription-based tiers of **WQData LIVE** are also available for generating custom alarms, exporting data through an API or custom NDBC/GLOS formats, and providing a publicly-accessible version of the project website.



Powered by SeaView Systems SVS-603HR

CB-75-SVS

WAVE BUOY

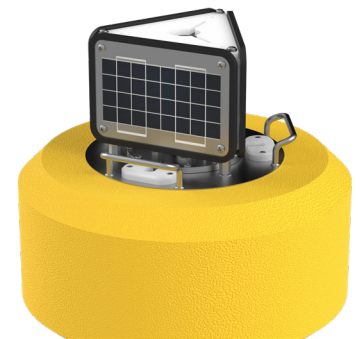
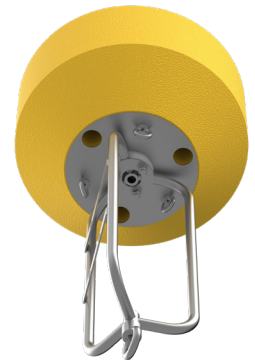
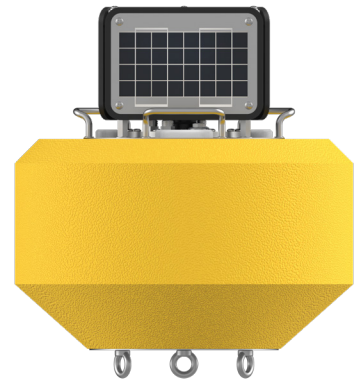
specifications

Wave Sensor	SeaView Systems SVS-603HRI
Parameters	Hs Wave Height (Significant Wave Height), TP (DPD) Wave Period, Dominant Wave Direction, Mean Wave Direction (MWD), Te Energy Period, RMS Tilt Angle, Max Tilt Angle
Range	Wave Height: 0.2-20m; Wave Period: 1.5-20 seconds; Wave Direction: 0-360°
Resolution	Wave Height: 0.001m; Wave Period: 0.001 seconds; Wave Direction: 0.001°
Accuracy	Wave Height: +/- 0.5cm; Wave Period: <1%; Wave Direction: +/-2°
Buoy	NexSens CB-75
Hull Outer Diameter	21" (53.34cm)
Hull Height	13" (33.02cm)
Tower Height	8.2" (20.83cm)
Solar Panels	3x 4-watts
Weight	49 lb. (22.23kg)
Net Buoyancy	81 lb. (36.74kg)
Tethering Attachments	3x 3/8" eye nuts
Data Logger	NexSens X3-SVS
Operating Temperature	-40°C to 70°C
Rating	IP68
User Interface	Wireless Bluetooth or wired RS-485 to CONNECT Software via USB adapter; WQData LIVE Web Datacenter with optional wireless telemetry; Status beeps
Real Time Clock (RTC)	<30sec/month drift ¹ ; Auto-sync weekly ² ; Internal backup battery
Data Logging	8 MB non-volatile flash memory; >1 year storage with 20 parameters at 15-minute interval; Max 200 parameters per log interval (170 parameters per instrument)
Log Interval	User configurable (30-minute default minimum) ³ ; Unique interval per sensor
Transmit Interval	User configurable (60-minute default minimum)
Transmission Trigger	Time-based; Selective parameter upload option
Sensor Interfaces	RS-232 (2 Channels), SDI-12, RS-485, Pulse Count
Built-in Sensors	Temperature (-40° to 100°C, 0.016°C resolution, ±0.3°C accuracy); Humidity (0% to 100%, 0.03% resolution, ±4% accuracy from 5 to 95% RH; System voltage; System current; System power; Real-time clock (RTC) battery voltage
Sensor Ports	(2) MCBH-8-MP for sensor interface (RS-232, RS-485, SDI-12, Power, GND)
Power Port	(1) MCBH-6-FS for power and communication (12V Solar In, Power Switch, RS-485 Host, GND)
Telemetry Options	2.4GHz Wi-Fi (802.11 b/g/n), 4G LTE global cellular, Iridium satellite; includes fallback support
Antenna Port	Type N female

¹Assumes 25°C operating temperature; ²Requires the X3-SVS to be connected to the internet; ³Minimum log interval dependent on wave sensor sampling frequency (5-minute, 10-minute, or 20-minute sample duration)

parts list

Part #	Description
CB-75-SVS	CB-75-SVS wave buoy with Wi-Fi telemetry
CB-75-SVS-4G	CB-75-SVS wave buoy with Wi-Fi & 4G LTE cellular telemetry
CB-75-SVS-IR	CB-75-SVS wave buoy with Wi-Fi & Iridium satellite telemetry
MCIL6MP-USB-DC	Male 6-pin USB PC cable with external 12VDC power adapter
M550-F-Y	Solar marine light with flange mount & 1-3 nautical mile range, 15 flashes per minute, yellow
CB-ZA	Sacrificial zinc anode for CB-Series data buoys



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CB-75-SVS

BOYA DE OLAS specifications

Sensor de Olas

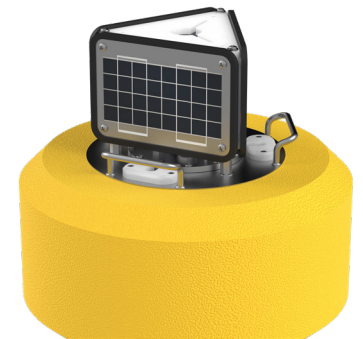
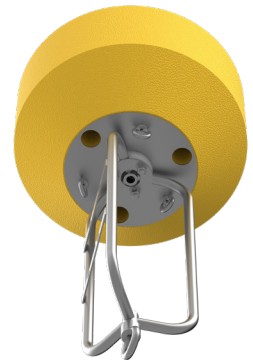
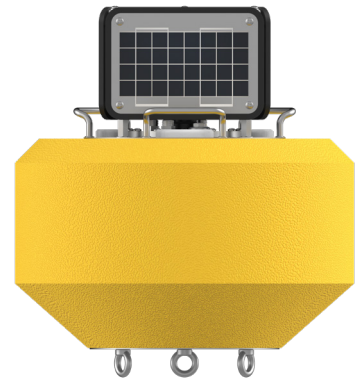
SeaView Systems SVS-603HRI

Parámetros	Hs Altura de Ola (Significant Wave Height), TP (DPD) Período de la Ola, Dirección dominante de la Ola, Media de la dirección de la ola (MWD), Te Energía del período, RMS Ángulo de inclinación, Ángulo de Inclinación Máximo
Rango	Altura de ola: 0.2-20m; período: 1.5-20 segundos; dirección: 0-360°
Resolución	Altura de ola: 0.001m; período: 0.001 segundos; dirección: 0.001°
Exactitud	Altura de ola: +/- 0.5cm; período: <1%; dirección: +/-2°
Boya	NexSens CB-75
Diámetro externo del casco	21" (53.34cm)
Altura del casco	13" (33.02cm)
Altura de la torre	8.2" (20.83cm)
Paneles Solares	3x 4-watts
Peso	49 lb. (22.23kg)
Flotabilidad Neta	81 lb. (36.74kg)
Accesorios de Anclaje	tuercas 3x 3/8"
Data Logger	NexSens X3-SVS
Temperatura de Operación	-40°C to 70°C
Rating	IP68
Interfaz de Usuario	Bluetooth inalámbrico o RS-485 cableado a CONNECT Software via adaptador USB; WQData LIVE Web Datacenter con telemetría inalámbrica opcional; alarma de estado
Reloj de Tiempo Real (RTC)	deriva de <30seg/mes 1; Auto-sync semanal 2; batería de backup interna
Data Logging	8 MB de memoria flash no volátil; >1 año de guardad de 20 parámetros a un intervalo de 15 minutos; Max 200 parámetros por intervalo de muestreo (170 parámetros/X3)
Intervalo de muestreo	Configurable por el usuario (por defecto 30 minutos mínimo) 3; intervalo único por sensor
Intervalo de transmisión	Configurable por el usuario (por defecto 60 minutos mínimo)
Disparador de transmisión	Basado en el tiempo; Opción de carga de parámetros seleccionados
Interfaces de sensores	RS-232 (2 Canales), SDI-12, RS-485, Conteo de Pulso
Sensores embutidos	Temperatura (-40° a 100°C, 0.016°C resolución, ±0.3°C exactitud); Humedad (0%-100%, 0.03% resolución, ±4% exactitud de 5 to 95% RH; Voltaje del sistema; Corriente del Siste Carga del sistema; voltaje de batería del Reloj de tiempo real (RTC)
Puertos de sensores	(2) MCBH-8-MP para interfaz de sensores (RS-232, RS-485, SDI-12, Carga, GND)
Puerto de carga	(1) MCBH-6-FS para carga y comunicación (12V Solar In, Interruptor, RS-485 Host, GND)
Opciones de telemetría	2.4GHz Wi-Fi (802.11 b/g/n), 4G LTE celular global, satélite Iridium; incluye soporte
Puerto de Antena	Tipo N hembra

1 Se asumen 25°C de temperatura de operación; 2 Requiere que el X3-SVS esté conectado a internet; 3 El tiempo mínimo de muestreo depende de la frecuencia de muestreo del sensor de olas (5-minutes, 10-minutes, o 20-minutes de duración de la muestra)

partes

Parte #	Descripción
CB-75-SVS	CB-75-SVS boya de olas con telemetría wifi
CB-75-SVS-4G	CB-75-SVS boya de olas con Wi-Fi & telemetría celular 4G LTE
CB-75-SVS-IR	CB-75-SVS boya de olas con Wi-Fi & telemetría satelital Iridium
MCIL6MP-USB-DC	Cable USB PC de 6 pines, con adaptador de carga de 12VDC externo
M550-F-Y	Baliza marina solar con poste de montura y rango de 1-3 millas náuticas, 15 flashes por minuto, amarilla
CB-ZA	Ánodo de sacrificio de zinc para boya de datos



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technology

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