

# Directional GNSS Wave Height Sensor

WITH INTEGRATED TELEMETRY OPTIONS

The Brizo-X Directional Wave Height Sensor utilizes Global Navigation Satellite System (GNSS) to measure wave statistics. Since the Brizo-X does not use a compass or accelerometer, no calibration is required. The sensor is housed in a fully Weather and Waterproof Enclosure for the most rugged environments. The sensor runs autonomously and can output over RS-232 or send messages over one of the embedded telemetry options available.

## Key Features

- Measure, record, and transmit bulk wave statistics
- Wave Motion Sensor using GPS and GLONASS, L1 & L2 Signals
- Internal GNSS antenna for easy mounting and deployment
- Fully Weather and Waterproof Enclosure, for the most rugged environments
- Internal logging capability
- Iridium SBD modem optional to receive data in real time

The Brizo X is backed by a fully comprehensive warranty and committed support. To arrange a demonstration or to learn more about our products, please contact us at the numbers below.



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# TECHNICAL SPECIFICATIONS\*

# BRIZO-X

## Data Outputs

### Wave Statistics:

- Significant Wave Height
- Dominant Wave Direction
- Max Wave Height
- Wave Spread
- Dominant Wave Period

These are frequently used wave stats but not a complete list.

Configurable Measurement Output Rate: 1, 2, 3 times per hour

## Electrical

Input Voltage: 9-27 VDC

0.75W - 1.3W Setting Dependent

Operating temperature: -40°C to +60°C

## GNSS

Supports GPS, GLONASS

Dual Frequency, L1/L2 Embedded Antenna

## Accuracy

Better than 1%, Better than 1%, 3°

## Telemetry Options

Iridium SBD

## Communications (Standard)

Serial – 2 x RS-232/485 with h/w flow control

SDI-12 - Optional

## Sampling

Sampling Frequency: 2Hz

Measurable Wave Period Range:

0.64Hz (1.56 seconds) to 0.030Hz (33.33 seconds)

## Mechanical

Dimensions: 7" diameter, 2.13" height

Mass: Option Dependent (~1.1kg)

Materials: Acetyl, Stainless Steel

## Data Storage

Storage: 1x 4GB microSD card, optional remote communication modules

\*Specifications subject to change  
without notice

