



Dimensions: (Approximately) L: 12in W: 10in D: 5in

Enclosure: Impact Proof Plastic

Data Storage Internal Storage - 2.5 yr@15 min Sample Rate

USB - over 20 years

**Total Images** Internal Memory 500 (640x480) Images, USB

over one million, Storage changes with image

resolution"

Output: RS485, Sampler Pulse, LCD

Power: Logger: 3.3 V, Internal: 12 V, External: Max 16 V

Operating

-40 to 60°C (-40 to 140°F) Temp.

Connectors: Vision Port / 12 Channel Output Port

> External Wireless / Antenna Port 12 Channel Sensor Input Port Internal USB and Wireless Port

Battery Packs: Internal Dual 12 V D-Cell Alkaline Power Supply

Sample Rate: User Defined, 1 to 60 minutes

Software: Field-Siren Windows GUI, Cloud Programmable

Protocol: Compressed Binary

Wireless: World Wide Cellular: 4G LTE and WiFi

Data Transfer: Blue-Live® - DropBox® - GoogleDrive® - FTP

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION, DESIGN OR OTHERWISE. . shall be the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

## **ECOSiren®**

#### **SOLO-AV FLOW KIT WIRELESS FLOWMETER**

Wireless Portable Flowmeter with Integrated Multimedia Vision Technology

DualWave Ultrasonic Doppler Flow Sensor Included

Connect Multiple Sensors, up to 20 Channels

User Replaceable Internal 12V Battery Supply

Lightweight, Portable Compact Design

Modular Wireless Design allows 4G or WiFi Connectivity

#### ECOSiren® - GO ECO

The ECOSiren® is a multi-sensor autonomous wireless monitoring platform designed to work in outdoor field environments, delivering data to your desk every time. The builtin multi-media platform allows direct connection of our optional vision camera taking simultaneous pictures that correlate directly with sensor readings. Receive alarm emails with images showing the event details and severity.

Automatically upload data for analysis to BlueLive® Cloud, DropBox®, GoogleDrive® or FTP location of your choice. Future proof worldwide LTE wireless module supports multiple countries and cellular frequencies, WiFi option also supported.



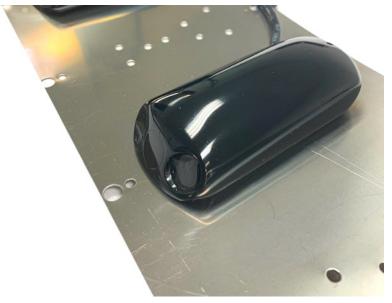
#### **Monitor with Vision®**

Each ECOSiren® monitor has a standardized camera port allowing you to monitor with vision® at any time. Great for overflow verification, industrial trade waste color, and Infiltration detection, Camera resolution can range from 5MP all the way down to 0.1MP, complete with user programmable compression.



Standardized Camera Port on Every ECOSiren® Monitor





Pressure: 30ft (10m) 15 PSI or 10ft (3m) 5 PSI

Accuracy: +/- 2% Laminar Flow

Input Voltage: 6-16V DC

Warmup Time: 2 seconds minimum

Resolution: 1 mm/s or 1 Hz/sec

Range: 0 to +10m/s (-6m/s optional)

Cable: 7.62m (25ft) Standard

Response

Time:

4 digital samples/second

Serial Output: UART - TTL, RS485, Hz

Baud Rate: 4800

Depth Output: 0 - 5V

Depth

Accuracy: 5PSI (+-) 1mm or 15PSI (+-) 2mm

Burst Height: > 100ft (15PSI)

Redundancy: Multiple Sensors can be used simultaneously

using Dual Wave technology

Linearity: +/- 0.15%

# **AV Flow Sensor**DUAL-WAVE Ultrasonic Doppler Velocity

Fully Submersible

**Dual-Wave Doppler Technology** 

Averaging Algorithms Applied

Doppler frequency is proportional to the speed of water in m/s

#### **Dual-Wave Velocity**

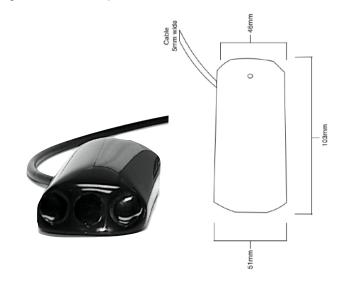
The Blue Siren Dual-Wave Velocity (AV) Sensor uses the Doppler effect to measure velocity using acoustic technology.

This AV sensor contains both pressure-depth and velocity sensors that are highly sensitive and accurate and provide you with data you can count on.

All electronics are encapsulated within the sensor housing.

Velocity is output via serial digital data stream and depth is output via an analog 0-5V signal.

Dual Wave Technology utilizes dual transmitters, filling the flow stream with more sounds waves, reaching a greater acoustic profile.



ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION, DESIGN OR OTHERWISE. ... It shall be the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.





#### **Technical Specifications:**

Pixel 2592×1944 (Default), 2048×1536, 1920×1080, Resolution:

1600×1200, 1280×960, 1024×768, 800×600,

VGA, QVGA, 160×120

Sensor: 1/4" CMOS

Baud Rate: 115200bps (default), 19200bps, 38400bps,

57600bps, optional

Angle of View 60 degree (default), 120/90/45/30/15/8 degree

(FOV): Optional

Focal Length: 3.6mm (default), 2.8mm/6mm/8mm/ 12mm/

16mm/25mm Optional

White Automatic Balance:

Operating -4°F-140°F Temperature:

Sample Rate: Minimum 1 minute

Auto Gain Automatic Control:

Exposure: Automatic

### **INDUSTRIAL 5MP CAMERA SENSOR Optional VISION Sensor**

Infrared LED Camera With Light Detection

Impact Resistant

Maximum 5MP resolution

**Bult-in Compression** 

**Encapsulated Electronics** 

#### Monitor With Vision®

The Blue Siren® 5MP high output LED Camera Sensor is great for thousands of applications: sewer pipes, grease clogging, inflow and infiltration problems, monitor storm grates and implement camera based infrastructure security.

Automatically store images and send them to any server or website. Subscribe to the BlueLive® Database and see your images as they upload. Sensor readings automatically correlate with image time stamps, allowing more in-depth analysis of system conditions.

The Camera Sensor is constructed using impact resistant urethane and encapsulated using optically clear epoxy. Air is fully vacuumed out of each sensor leaving no room for condensation or moisture.



ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION, DESIGN OR OTHERWISE. ... It shall be the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.



#### DATA MANAGEMENT

# Wireless Cloud Delivery and Data Analysis

View and Analyze Real Time Data

Automatic Delivery to Hosting Provider of your choice, DropBox®, Google Drive®, FTP, email, BlueLive®

**Batch View Line and Scatter Plots** 

Manage Large Networks

Multiple End Users, No Additional Fees

#### FLEXIBLE DATA PLAN AND DELIVERY OPTIONS:

Automatically upload monitor data to BlueLive®, DropBox®, GoogleDrive®, email, or a FTP location of your choice. The internal worldwide 4G LTE wireless module supports multiple countries and cellular frequencies. In addition, WiFi connectivity options also available for infrastructure implementation. Provide your own SIM card and cellular network or have Blue Siren provide one for you. Blue Siren has low cost options on major networks such as AT&T® and Verizon Wireless®.



ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. ... It shall be the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.