BLUE SIREN®
Monitor with Vision®

SCADASiren™
LOW FLOW KIT
WIRELESS FLOWMETER

Micro Velocity Sensor Combined with Low Dead Band In-Pipe Level Sensor Measures Accurate Low Flow

Ultrasonic Doppler Flow Velocity Sensor Included

AC , DC or Solar Power Kits

Rugged Design with Clear View Window and LCD

Optional 4G or WiFi Wireless Connectivity

SCADASiren™

The SCADASiren™ is a multi-application wall mount monitoring system with LCD and flow totalizer. Multiple SCADA output options are available including 4-20 mA, RS485, serial and analog output modules.
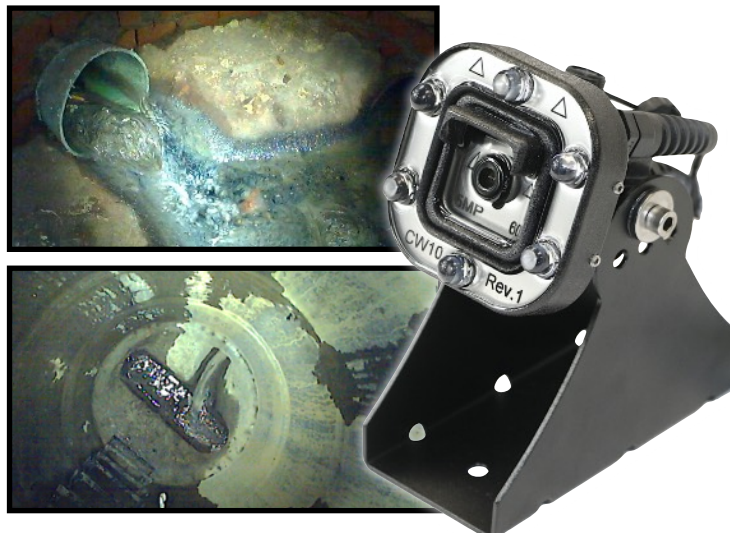
Optional USB allows for onsite data collection not requiring external connection to a field computer to collect data.

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.

Built-in multi-media platform allows direct connection of our vision camera taking simultaneous pictures that correlate directly with sensor readings. Receive alarm emails with not only critical data but also images supporting the condition.

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®

SPECIFICATION

Enclosure:	10 x 8 x 4in (HxWxD), wall mount, fiberglass reinforced polyester, gray, single-door, (2) twist-lock latches, SAR acrylic window.
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 Temp.	-40 to 60ºC (-40 to 140ºF)
Connectors:	Spring Load Compression Fit
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

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Monitor with Vision®

MICRO-VELOCITY
Single Wave Micro-Sized Ultrasonic Doppler Velocity

Measure Velocity in 0.5 inches of Flow Depth

Single-Wave Doppler Technology

Averaging Algorithms Applied

Doppler Frequency is Proportional to the Speed of Water

MICRO-Velocity Sensor

The Blue Siren Single-Wave Micro Velocity sensor uses the Doppler effect to measure the speed of fluid using acoustic technology.

This sensor is ideal for measuring micro flow rates in pipes flowing 0.4 inches or higher.

All electronics are encapsulated and submersible.

Accurate Dual Wave Ultrasonic Level is used to measure flow depth inside the pipe.

Great alternative for capturing low flow rates when most other solutions require at least 1.5 inches for flow depth or higher.

Micro Velocity has a lower profile than a dry erase marker

Micro - Velocity Sensor

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 up to 300 ft
Response Time:	4 digital samples/second (Dependent on Average Algorithm)
Serial Output:	UART - TTL, RS485, Hz
Baud Rate:	Serial Communications 4800
Redundancy:	Digital cross correlated oscillation allows for multiple sensors to be used simultaneously
Dimensions:	0.5in X 1.7in X 1in

Measure Flow in 1/2 inch of Depth

BLUE SIREN®

Industrial Short Range Ultrasonic Level Sensor Product Specification Sheet

LevelPULSE™
Ultrasonic Level Sensor
Model: PSP/V-95

Measure Low Flow Depths in Pipes

Pre-Calibrated for Water Level Detection

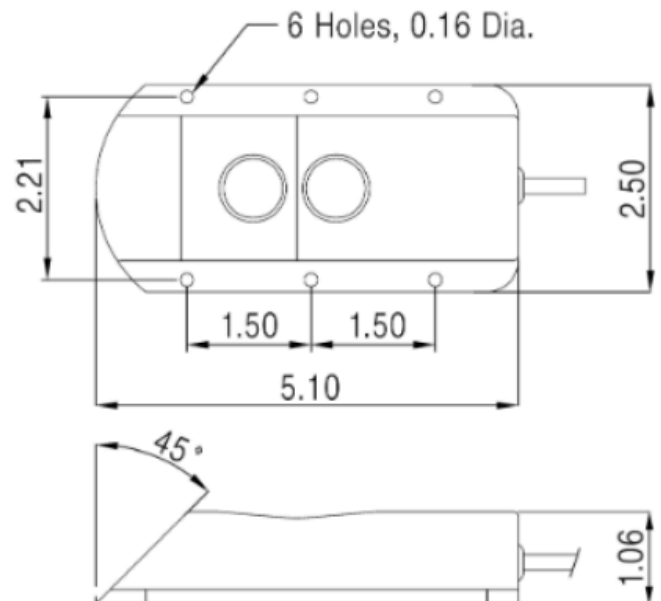Near Zero Dead Band (1" to 5') Range

Submersible Design

Smart Signal vs Level Detection and Correction when used with Blue Siren Loggers.

Measure Low Flow and other Level In Pipes and Constricted Spaces

High-Resolution, Submersible, In-Pipe Ultrasonic Level complete with 25ft cable. Great for measuring low flow depth that require a true resolution and accuracy of 1mm.

Low profile ultrasonic transmitter modules are optimized to provide continuous non-contact distance measurement of fluids in constrained working zones for application ranges from 1 inch (25 mm) to 5 feet (1.5 m).

All sensors provide precision measurement for wastewater and water flow with non-uniform surfaces by incorporating state-of-the-art dual-transducer ultrasonic technology and processing algorithms.

Technical Specifications:

Body Material:	Rugged PVC Construction
Accuracy:	+/- 0.1% of Target Range
Beam Angle:	50º Conical
Operating Voltage:	12V DC
Temp. Compensation	Yes
Range:	1 inch (25mm) to 5 feet (1.5m)
Target Detection:	Dead-Band: 1 in (25mm) Maximum Range: 5 ft (1.5m)
Response Time:	60 mS
Sampling Rate:	0.1Hz to 20Hz in 0.1Hz increments Factory Default: 10Hz
Temperature Range ºC:	-40ºC to 70ºC
Relative Humidity:	0 to 95%, non-condensing
Enclosure Rating:	IP68

6 Holes, 0.16 Dia.
2.21
2.50
1.50 1.50
5.10
45°
1.06

INDUSTRIAL 5MP VISION SENSOR

5MP Camera Sensor with High Output LED Ring

Multiple Resolution and Compression Settings

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.

Technical Specifications:

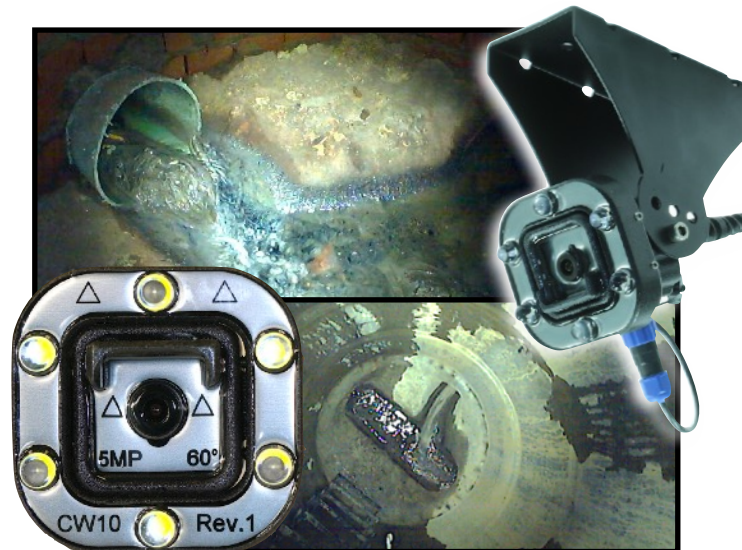|	
Pixel Resolution :	2592×1944 (Default), 2048×1536, 1920×1080, 1600×1200, 1280×960, 1024×768, 800×600, VGA, QVGA, 160×120
Sensor:	1/4" CMOS
Baud Rate:	115200bps (default), 19200bps, 38400bps, 57600bps, optional
Angle of View (FOV):	60 degree (default), 120/90/45/30/15/8 degree Optional
Focal Length:	3.6mm (default), 2.8mm/6mm/8mm/ 12mm/ 16mm/25mm Optional
White Balance:	Automatic
Operating Temperature:	-4°F-140°F
Sample Rate:	Minimum 1 minute
Auto Gain Control:	Automatic
Exposure:	Automatic

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®.

| Graphical Analysis | Line Graph Batch Analysis | Scatter Plot Batch Analysis | Data Export | Wiifat Export | GIS Analytics | Monitor Map | Wireless Report | Alarm Report | Alarm Setup | Email Config | Data Upload | Settings | Site Info |

Multi-Layered Line Graphs

Batch Report and ScatterPlots

GIS, Google Maps, and Spatial Analysis Tools

Image vs Data Correlation and TimeLapse