Stilltek iGage Stream Gauge

IGage INNOVATION

Small form factor

Lightweight

Low cost

Solar powered

Self-contained

No infrastructure required.

Global coverage

Easy Deployment

iGage OPTIONS:

- Rain gauge

The iGage can be equipped with a tipping bucket rain gauge to measure precipitation as well as water levels.

- GPS module

Equipped with a GPS, the iGage will report its precise location useful for portable operations.

- Snow Gauge

The iGage can be configured with a snow sensor for use as an automated snow stake.

AIRTIME & DATA COST:

The iGage uses a binary compressed data format to minimize airtime data costs. A typical deployment, reporting stream level once per hour cost approximately $13.50 per month.

REMOTE CONFIGURATION:

The iGage measurement and communication intervals can be configured and adjusted remotely after deployment through the 2-way SBD satellite link.

The iGage is an innovative low-cost water level gauge that is easily deployed on bridges and other structure to measure water levels. It provides real-time data through the Iridium satellite network. The Iridium network provides global 24/7 coverage throughout the world.

Having real-time data can be critical for monitoring, predicting and issuing warnings to the public for river, coastal as well as inland flooding.

The iGage is completely self-contained powered by a battery with solar panel charging which allows it to be deployed in remote areas without power or communication.

The small enclosure makes it easily deployable wherever there is a bridge or other structures over the water.

The iGage was developed under a Cooperative Research and Development Agreement with National Weather Service Alaska River Forecast Center a unit of NOAA.

- Measures distance to water using a time-of-flight acoustic sensor up to 32.8 ft (10 meters).

- No external wiring required, completely self-contained.

- Small form factor 7 x 5 x 3 in (9 x 5 x 3 in including sensors)

- No Infrastructure required

- Battery powered with solar charging provides continuous operation 24/7.

- Global communication coverage through the Iridium satellite network. Works anywhere on the globe.

- Real-time reporting.

- Real-time clock maintains time synchronized with satellite network.

- Compact size makes iGage easily deployed on bridge or other structures.

Installation and Deployment

The small size and weight of the iGage makes deploying a new iGage very straight forward process. On the left is a typical bridge deployment using commercial off the shelf parts commonly available at retail and wholesale providers.

The weight of the iGage at 3.50 lbs. does not require heavy duty hardware and can easily be mounted on electrical conduit using stainless steel hose clamps.

The two requirements for reliable operation are to provide clear sky to sunlight for charging as well as a clear view of the sky for satellite communication.

Bridge mounting inevitably requires some compromise as the bridge may obscure satellite coverage

TECHNICAL SUPPORT

We pride ourselves in providing excellent customer service. We believe our success is totally dependent on our customer's experience and success of their mission.

DATA DELIVERY

Upon deployment, data is immediately available through our web site. Our data service provides an API to integrate data into your infrastructure or website. We support multiple data formats including html, json, csv, xml and shef.

TURNKEY SOLUTION

The iGage provides a turnkey solution for water level monitoring without requiring infrastructure. They may be deployed on a permanent or temporary or portable basis.

FURTHER INFO

For more information on any of our products or services please visit us on the Web at:

www.stilltek.com

iGage Specifications

Distance Measurement:		0-32.8ft (0-10m)
Distance Accuracy:		1% of distance measured
Distance Resolution:		+/- 1 mm (.04in)
Size:		7in x 5in x 3in
Weight:		3.50lb
Power	Battery:	6VDC (4.5Ah)
	Solar:	9VDC (1 Watt)
	Avg Current:	< 2ma w/ hourly transmission
Communication:		Iridium Short Burst Data two-way transceiver
Data Format:		json, html table, csv, xml, shef
Warranty:		90-day warranty. Extended warranty available for purchase
Other:	Real Time Clock	
	1024	Kbit Non-volatile storage (~2yr data logging)
	On board and outside air temperature sensor	

SERVICES AVAILABLE

Technical Support
Installation and Setup
Maintenance
Application Support
Hardware Support
Extended Warranty

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