

Water Pipe Network Monitoring & Leak Detection



Acoustic – Active Leakage Control



Continuous Pipe Monitoring by Correlating Sensors



Smartphone App. - Advanced Pinpoint Correlation & Survey



High Pinpoint Accuracy with Minimal False Alarms



Cloud Based Solution



Supports Asset Management (AM)



AQS-SYS

Automated Water Monitoring
System and Leak Detection

Cloud Based Solution

Big Data Analysis and Fast Implementation.

iQuarius™

Smartphone App. Leak
Detection Solution for Survey,
Correlation and Pinpoint





About Us

Aquarius-Spectrum was established in 2009 as part of the Kinrot technology incubator and is currently a subsidiary of Hutchison Water, a division of CK Hutchison Holdings Limited, renowned multinational conglomerate committed to innovation and technology.

Aquarius-Spectrum specializes in monitoring solutions for leak detection in urban water pipe networks, enabling a high level of water network operation and maintenance.

Aquarius-Spectrum's patented comprehensive solution can monitor an entire water distribution network and provide a complete up-to-date GIS picture of every point of failure. This provides engineers and decision makers in municipal water utilities and water service providers with essential decision-support information at an affordable cost.

To date, more than 2,000 sensors are operating in 4 cities, monitoring over 1,000km (620 miles) of water pipes daily. More than 200 leaks have been found and repaired following automatic system alerts, resulting in a remarkable ROI for the utilities.

The company offers two different product lines that turn the water pipes into internet-monitored equipment, making them true Internet-of-Things (IOT) components.

The **AQS-SYS** fixed-sensor monitoring solution is based on daily acoustic monitoring, using correlating sensors for detection and location, whereby each sensor covers on average over 500 meters (1,640 feet) of water pipe.

The **AQS-SYS** detection by correlation locates pipe leaks from very small hole sizes (1.5mm / 1/16 in) with minimal false alarms. Together with advanced algorithms, it provides water utilities with a high level of accurate data and daily tracing of the condition of water pipes, with a user friendly web cloud platform and informative dashboard.

iQuarius™ smartphone App. and widget enables easy surveying, leak detection and pinpointing of water leaks, using new acoustic correlation technology. It is the first smartphone-enabled professional acoustic sensor on the market also featuring a cloud-based analytical system.

iQuarius™ empowers utility employees with the necessary tools to effectively support their organization with easy-to-use and affordable equipment. All gathered information is recorded and can be analyzed by the system and the back-office support.

