

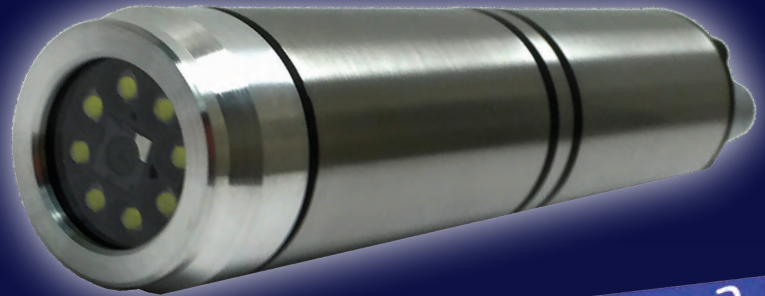


Next Generation Multi-Sensor Water Leak Detection Technology

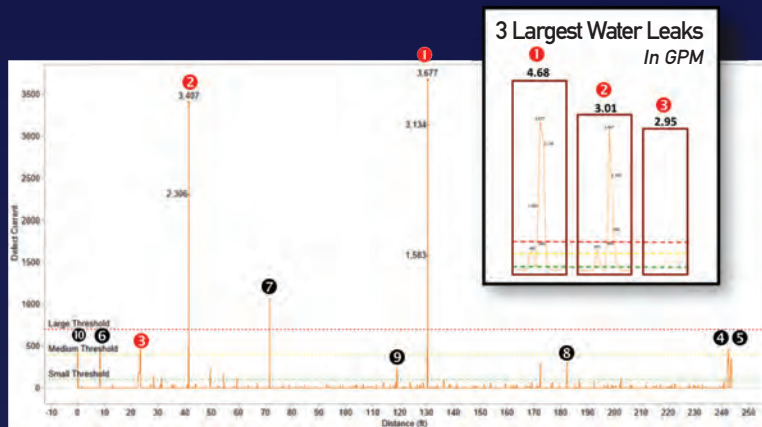
Automatically Locate and Measure Leaks in Pressurized & Gravity Water Mains.

Electro Scan's Proprietary 4-in-1 Probe Includes:

- Low Voltage Conductivity
- High Definition CCTV
- Pressure Sensor
- Acoustic Hydrophone



Low Voltage Conductivity Leak Detection is Here!
The water industry's first reliable & repeatable tool to locate & measure water leaks in pressurized water distribution & transmission mains.



Automatically finds leaking cracks, pinholes, bad joints, & defective service connections, and calculates their GPM.



U.S. and International Patent Pending.

Exclusively Available as a Service From Electro Scan Inc.

electro scan inc.

Reliable, Repeatable, & Measurable Technology Finds Water Losses

Pipe Specifications Especially Designed For Advanced Pipe Materials.

Operating Temperature Range	-5°C to 45°C (23°F to 113°F).
Operating Pressure Range	0-90 PSI.
Location Accuracy	0.4 inches (1cm).
Conveyance Type	Pressurized or gravity mains.
Insertion Tube Launch	Fire Hydrants, Air Valves, Gate Valves, Flow Meters, Hot Taps, Pressure Fittings.
Required Flow	1 ft (305mm) per second (fps).
Transport	Parachute.
Pipe Materials	Asbestos Cement (AC), Cement-Mortar Lined and Coated Steel Pipe (CMSP), Cured In-Place Pipe (CIPP), Fiberglass Reinforced Pipe (FRP), High-Density Polyethylene Pipe (HDPE), Prestressed Concrete Cylinder Pipe (PCCP), Polyethylene Pipe (PE), Polyvinyl Chloride (PVC), and Reinforced Concrete Pipe (RCP).

Multi-Sensor Probe Find Leaks Not Detected by Acoustic, Electro Magnetic, Helium Tracers or CCTV.

Probe Length	6.25 inches (158.75mm).
Rigid Length	10 inches (254mm).
Cable	Neutral buoyant.
Cable Type	Fiber optic and copper.
Single Point Access Range	1,000ft (305m) range or 2,000ft (610m) range from since point of access.

Low Voltage Conductivity Next Generation Defect Location & Measurement (GPM or LPS).

Voltage	11 volts, AC, RMS.
Current (max)	40 mA.
Electrical Array	Focused tri-electrode array.
Defect Flow Calculation	Gallons per minute (gpm) or Liters per second (lps).
ASTM F2550-13	Yes. Able to automatically locate all cracks, fissures, broken joints, leaking service connections, by measuring the change in electrical current able to pass through the wall of a pipe.

High Definition CCTV In-Pipe Navigation for Documenting Location of Low Voltage Defects.

Resolution	1920 x 1080, 30 fps, H.264 compressed stream.
Minimum Illumination	6 Lux at F2.8.
Output Compressed Video Formats	Digital (.AVI and .MP4); High-sensitivity complementary metal-oxide-semiconductor (CMOS) image sensor combined with an advanced image processor superior video and still image quality.
Focus	Fixed position, autofocus, auto white balance, and image stabilization.
Focal Length	5.3mm.
Video Streams	Two simultaneous video streams, including a high quality stream for archiving and a low quality stream for live viewing on mobile devices, each with independently configurable resolution & bit rate streaming that can be output to specific network addresses.
Text Overlay	Built-in overlay generators allow up to 160 text characters to be positioned anywhere in the video frame.
Snapshot	Capture and store hi-res jpg 4096 x 3096.
Lighting	8 LEDs, 4500 Lumens.

Pressure Sensor In-Pipe PSI to Help Calculate Defect Flow Rate at Specific Leak Locations.

Type	Media compatible piezoresistive silicon pressure sensor.
Digital Output	24-bit $\Delta\Sigma$ ADC pressure sensor.
Temperature Monitoring	Integrated for accurate pressure calculation compensation.

Acoustic Hydrophone Legacy Method to Assess Metallic Fittings & Benchmark to New Standards.

Frequency Range	1Hz to 170 kHz, omnidirectional.
-----------------	----------------------------------

"Electro Scan's 4-in-1 probe represents a new breed of precision-based instrumentation designed specifically for the water industry. By coupling legacy acoustic technology with our next generation low voltage conductivity technology, water utilities and consulting engineers can immediately find & measure leaks that would not have been detected or correctly measured."

Chuck Hansen, Chairman, Electro Scan Inc.
Former Founder & CEO, Hansen Information Technologies Inc.

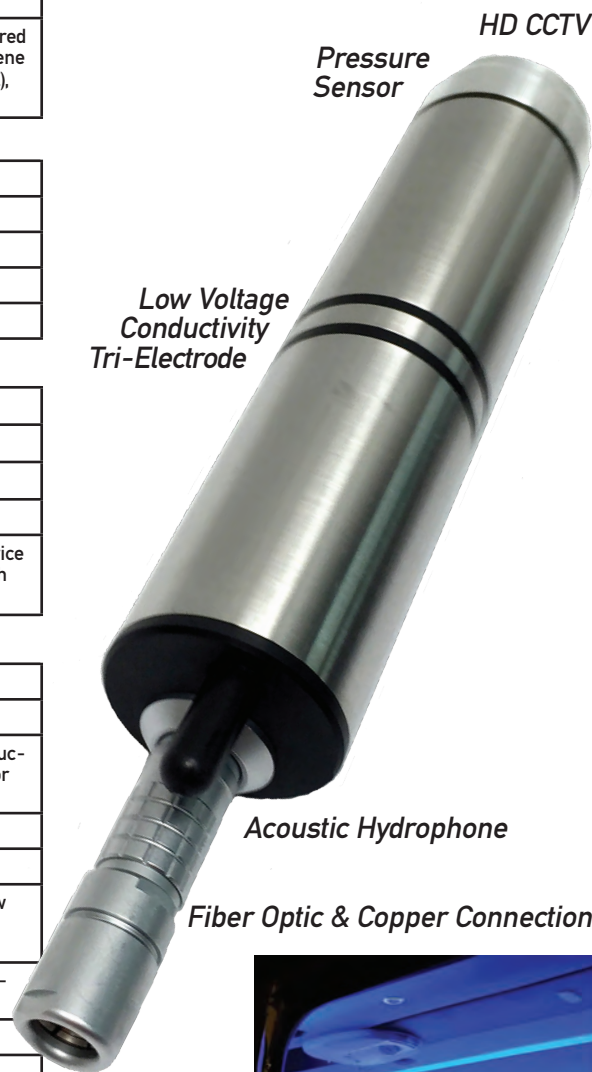
electroscaninc.

1745 Markston Road, Sacramento, California 95825-4026 | 916.779.0660 | info@electroscan.com | www.electroscan.com

U.S. and International Patent Pending.

INDUSTRY AWARDS

Best Innovative Technology **WEF**
Best Project **UKSTT**
Product Innovation Award **NASTT**
Best CleanTech Company **The New Economy**



Acoustic Hydrophone

Fiber Optic & Copper Connection



Electro Scan Inc. Copyright © 2015.