

LEAK DETECTION PRODUCT & SERVICES CATALOG

2022

DELTA PRESSURIZED WATER LEAK DETECTION

ES-600 SEWER



TRIDENT PRESSURIZED WATER LEAK DETECTION



SWORDFISH LEAD DETECTION







OUR QUALITY STANDARDS AND YEARS OF SERVICE CONTINUE TO OFFER SOME OF THE MOST TALENTED FIELD AND TECHNICAL PERSONNEL IN THE INDUSTRY.





2022

IoT Breakthrough Awards: Leak Detection Solution of the Year

Edie Sustainability Award: Product Innovation of the Year - Finalist

Winner of Builtworlds Venture West Demo Days

2021

IoT Breakthrough Awards: Leak Detection Solution of the Year

Petronas: Technology Challenge 15 Winner (Inspection Technique of Non-Metallic Underground Piping)

2016

Sacramento Region Innovations Award - Finalist

2015

NASTT: Joseph L Abbott Jr Award for Product Innovation

UKSTT: Best Project Award for Small Scheme

AEI: American Leadership Award

2014

Green Tec Awards: Water & Sewerage - Finalist

2013

The New Economy Clean Tech Awards: Best Water & Wastewater Solutions

South West Water: PURE Award for Innovation

WEF: Innovative Technology Award

NASTT: Joseph L Abbott Jr Award for Product Innovation

Sierra Nevada Innovation: CleanTech Award









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PRODUCT OVERVIEW

	DELTA Multi-Sensor Probe TRIDENT	Small-to-Medium Pressurised Water Mains or Sewer Rising Mains up to 60 inches (1500mm). Up to 3,300 ft (1km) per survey, or 6,600 ft (2km) with special upgrades.	Only available for service-related projects. Not for sale to utility customers or contractors. Contractor licensing subject to training, qualifications, and annual support agreement. Available for sale to municipal
	Multi-Sensor Probe - American Version - British Version	Mains or Sewer Rising Mains, up to 60 inches (1500mm). Up to 240m per survey (120m in a single direction).	or investor-owned utilities. Available for licensing to contractors on a daily or per meter basis.
	Swordfish 82 Pb Lend 207.2	Buried lead pipe detection. Very small diameter water pipes 0.5-4 inches (13-100mm).	Available for sale to utilities and plumbers. Available for licensing to contractors on a daily or per meter basis.
	CriticalH ₂ O® Cloud App	Web-based data management & storage, including SQL database for storing real-time inspection results for Low Voltage Conductivity, Acoustic, and CCTV surveys.	Requires set-up fee, per seat licensing, and minimum 2-year software support agreement.
	ES-600 CCTV Optional: ES-670, ES-660, ES-650 ES-400	Medium-to-Large diameter Sewer or Stormwater Pipes, or Gravity Water Mains 6-72 inches (150-1800mm). Rack-mounted onto an existing CCTV truck or van. 1,500ft (460m) range.	Available for sale to municipal or investor-owned utilities. Available for licensing to contractors on a daily or per meter basis.
	Optional: ES-670, ES-660, ES-650 ES-400	Medium-to-Large diameter Sewer or Stormwater Pipes, or Gravity Water Mains 6-72 inches (150-1800mm) that are difficult to access by vehicle. 1,000ft (305m) range.	Available for sale to municipal or investor-owned utilities. Available for licensing to contractors on a daily or per meter basis.
	Optional: Plug Reel, Hand Cart ES-200, ES-50	Small-to-Medium diameter Sewer or Stormwater Pipes 4-24 inches (150-600mm). Push rod length is limited to approximately 490 ft (150m).	Available for sale to municipal or investor-owned utilities. Available for licensing to contractors on a daily or per meter basis.
3 action Pages Pa Pages Pages Pages Pages Pages Pages Pages Pa Pa Pa Pa Pa Pa	ES-200 Push Rod Optional: Plug Reel, Hand Cart ES-50	Small diameter Sewer or Stormwater Pipes 3-8 inches (76-150mm). Best for private laterals. Push rod length is limited to approximately 490 ft (150m).	Available for sale to municipal or investor-owned utilities. Available for licensing to contractors on a daily or per meter basis.
	ES-25 & 50 Push Rod Optional: Plug Reel, Hand Cart	Very small diameter Plumbing Fixtures or Industrial Tubing 0.5-4 inches (25-100mm).	Scheduled for release in Second Quarter 2022.
critical sewere	CriticalSewers® Cloud App	Web-based data management & storage, including SQL database for storing real-time inspection results for Low Voltage Conductivity.	Requires set-up fee, per seat licensing, and minimum 2-year software support agreement.

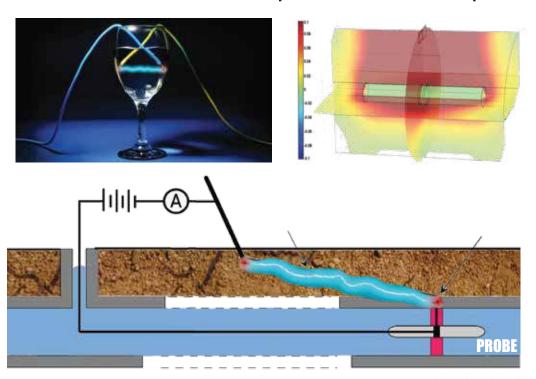
1. All products are available for international projects, and require detailed maps and a project plan addressing permitting, traffic control, and pipe access.



NON-ACOUSTIC LEAK DETECTION

How Leaks Are Found & Measured in GPM

If a pipe leaks electricity, it leaks water, and can be measured in Gallons per Minute or Liters per Second.



- Machine-Based Leak Location.
- Measures the Size of Hole by Focused Electric Current.
- Machine-Based Leak Quantification in GPM or LPS.
- As Featured in AWWA M77, ASTM F2550, JACSOMA #7

± 0.4 INCH ACCURACY REPEATABLE RESULTS







COMPETITIVE ADVANTAGES

Company YES V NO	electro	scaning.	Aquam	Xylem/Pu	ıre/WRc	Aganova	Ingu	Utilis
Features / Product	Delta	Trident	JD7	Sahara	SmartBall®	Nautilus	Recon	Satellite
Technology	Acoustic, CCTV, Conductivity	CCTV, Conductivity	Acoustic, CCTV	Acoustic, CCTV	Acoustic	Acoustic	Acoustic	Synthetic Aperture Radar
In-Pipe Connection	Tethered	Tethered	Tethered	Tethered	Free Flowing	Free Flowing	Free Flowing	0
Device	-	3.	*	(p	•	•	999	7
Visual Inspection with Camera	V.	7	1	1		-0	-0	10
Joint Spacing	V	V.	10	10	0	0	10	10
Leak Location - Accuracy 1cm	V	V	-0		-0	0	-10	
Leakage Severity – Expressed in Gallons per Minute or Litres per Second	√	√	0	0	0	0	0	0
Finds & Measures Leaks in Plastic Pipe	√ .	√ .	0	(0)	0.	0	10	0
Pressurised Water & Gravity Sewers	√ .	V.				-0	0	0
Wall Thickness for Cement Asbestos	√ .	V.	-0	0		(0)	- 0	0
Able to Find Leaks With 'NO FLOW'	V	V	(0)	0	.0	0	30	.0
Repeatability of Leak Location +2years	1	V	(0)	0	0	0		0

KEY ADVANTAGES

- No Lost Balls or Spheres. 100% Retrieval Since We're Tethered.
- No False-Positives from 'Hitting' the Pipe Wall like Acoustic. Not Possible With Ohm's Law.
- No Missed Leaks. We Find Them All.
- No Guessing 'Which Leak is Larger?' Each Has a Liters per Second or GPM.
- No High Pressure Needed. We're Pressure-Independent; Able to Scan 0-175 psi (12 bar).
- No Long Wait for Reports. Data is Available in Minutes!
- No Estimated Locations or Ranges. Pinpoint Locational Accuracy of 1cm (0.4in).
- No Late Night / Early Morning Testing. Ambient Noise & Customer Pipe Usage Is Not a Factor.
- No Effect from High Groundwater Surrounding Pipes. Electro Scan Measures Size of Hole.
- No Need to Increase Pipe Pressure to Hear Leak. Electro Scan Is Non-Acoustic.



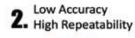


SURVEY REPEATABILITY

Low Accuracy Low Repeatability











Medium Accuracy 3. Low Repeatability





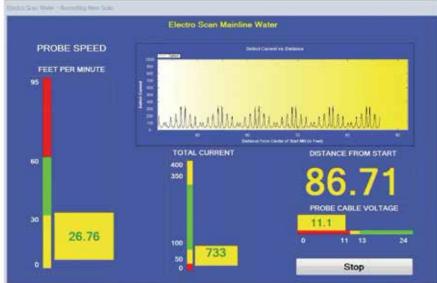
FIBER OPTIC











Conductivity Benchmark Testing

Forward •

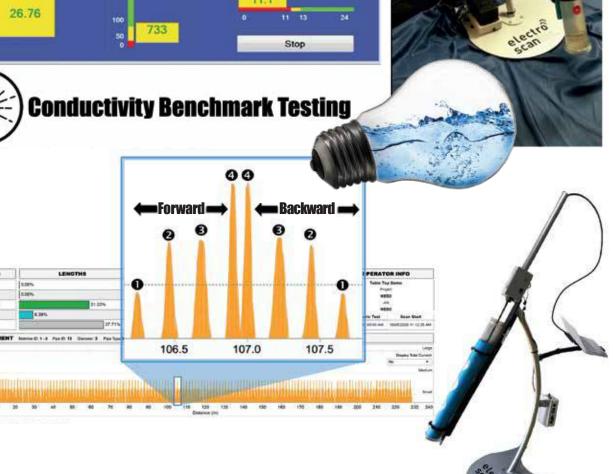
106.5

00

107.0

Backward 🛶

107.5





PIPE MATERIALS

ABS Acrylonitrile-butadiene-styrene PB Lead **PCCP ACP** Asbestos Cement Pipe Prestressed Concrete Cylinder Pipe PΕ BRK **Brick** Polyethylene **CMLSP** Cement Mortar Lined Steel **PFP** Pitch Fiber Pipe CON Concrete PP Plastic Pipe **CIPP** Cured-In-Place Pipe **PVC** Polyvinyl Chloride DIP Ductile Iron (w/Protector 401) **RCP** Reinforced Concrete Pipe **FRP** Fiberglass Reinforced Pipe **RPM** Reinforced Plastic Mortar **FRPM** Fiberglass Reinforced Polymer Reinforced Thermosetting Resin RTR Glass Reinforced Pipe **GRP** SIPP Spray-in-Place Pipe High Density Polyethylene **HDPE SPR** Spiral Wound Pipe **ORP** Orangeburg Pipe TC Terracotta or Clay Pipe VCP **PBE** Polybutylene Vitrified Clay Pipe



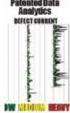
PRE-REHABILITATION



Ashestes ement Pipe

ectro Sean FELL is sque in its ability to ometrically map the naining wall, i.e. rrosson of ACP

inding & Measuring Pipe Corrosion Ising Electro Scan's Patented Data Analytics



ORROSION

DEFECTILOW

i demonstrated by dependent bench-irks, since acoustic d transient pressure asors are unable to ovide detail gen-tric assessments pipe walls, and crefore unable to imate remaining imate remaining be walls, Electro an represents an represents rame changing lution to assess & joritize ACP.







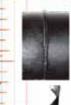


High Density Polyethylene

Poor mechanical or fused joints are the Actulles beel of HDPE, and not seen by CCTV camerus or heard by accustic data loggers or senses. But, found & quantified by FELL in accordance with ASTM F250.















Prestressed Concrete **Cylinder Pipe**

Electro Scan represents the only technology able to reliably & considently fin & measure leaks in GPM.

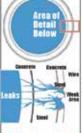
While other devices may natering to locate comoding with the total controlled wire mesh that may or may not indicate a weakness in the pipe well. Low Voltage Conductivity represents a game-changing solution to provide unbusied leak locations. & severity for each defect.





Superior to acoustic and electromagnetic sensors, Electro Scan's Low Volt-age Conductivity detects leaks other technologies

How PCCP Fails?





Vitrified Clay Pine



you evaluate VCP from the outside or inside of a pape CCTV, Laser, LIDAR, Sonar, GPR, or Acoustic, are not able to detect or



Electro Scan's FELL is the only technology, repre-senting a Non-Destructive Test (NDT) able to follow a 90° pape bend to locate a pathway for water to enter or exit a pape.

By measuring the change in current and the amount of flow, the size of the opening can be computed and translated into an estimated GPM.



Open treach evaluation of FELL located defects missed by CCTV, exactly showed three matching leaks the to fittings that were gover tightened. Just need over a dozen tests, proving FELL superiority

POST-REHABILITATION









PINHOLES



SOAKAGE



- RECOMMENDED USE: To Find a Quantity Leakage Accelerant Burns Accidental Cuts Bad Service Recor Bad Lateral Liners Bilotera
- Poor Curing

FELL is now preferred over using traditional packers to test joints for water tightness, due to FELL's Non-Destructive Testing (NDT) of joints, laterals, and cracks.



Unlike air testing, FELL does pot force any added pressure evidential can open points or active points or act open points, shift press, and even temporarily corner one-of-cound condenious in plastic pipes as press around jounts are unflated, packers are no longer recommended for testing the quality of jounts or laterials.



DEGRADED GROUT .

STILL OK.

RECOMMENDED USE: 1. All Pro-Grouted Pipes.

Pest-Greated Pipes, 8-12 Months After Great to Botect Dryin or Shrinkage.

3. Prior to-Warranty Acceptance.



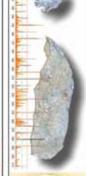
Spray-In-Place Pipe



Spiral Wrap Pipe

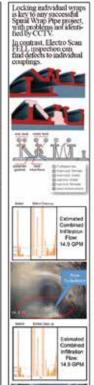


Defects OK'd By CCTV Found By FELL





RECOMMENDED USE: 1. Pre-SIPP. 2. Post-SIPP All Liners. 3. Prior to Warranty

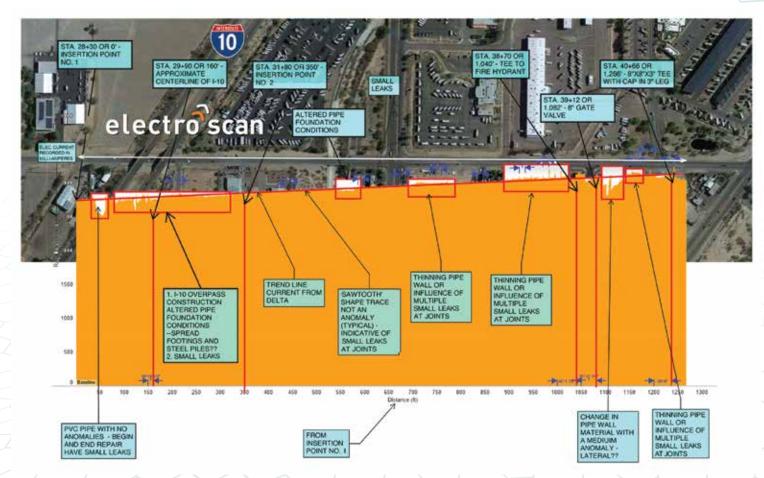


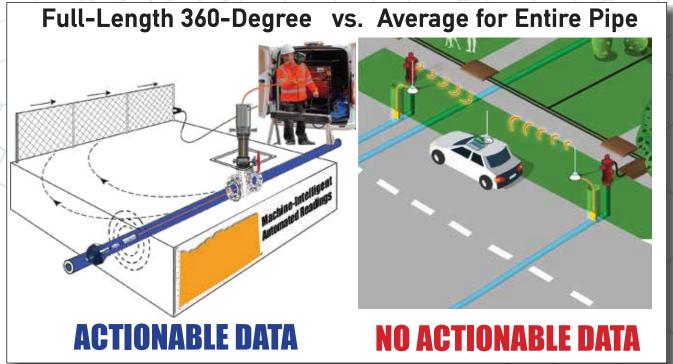


3. Prior to Warranty



PIPE WALL THICKNESS







electro scaning.

ILLEGAL & LEAKING TAP CONNECTION ASSESSMENTS







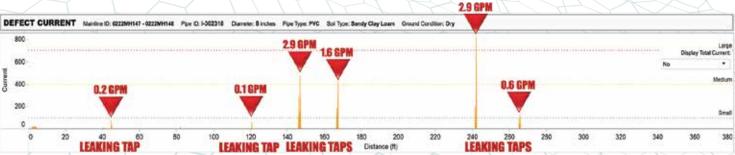




ELECTRO SCAN USES PINPOINT ACCURACY AND AI-CCTV TO ACCURATELY IDENTIFY LEAKS AT TAPS v. PIPE WALLS

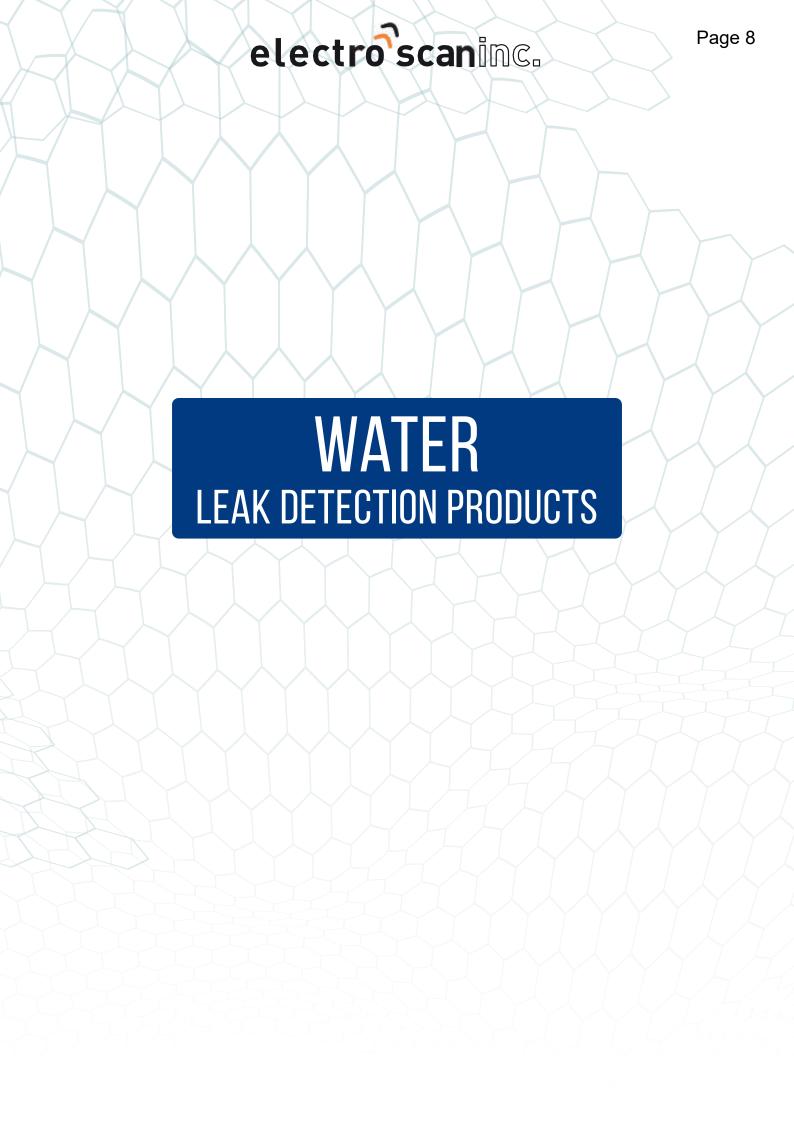






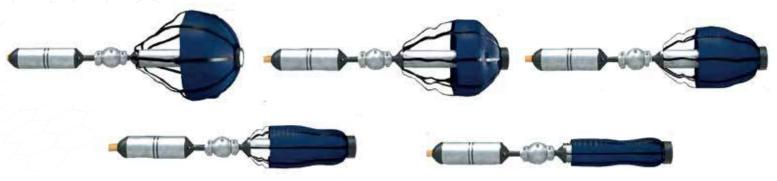








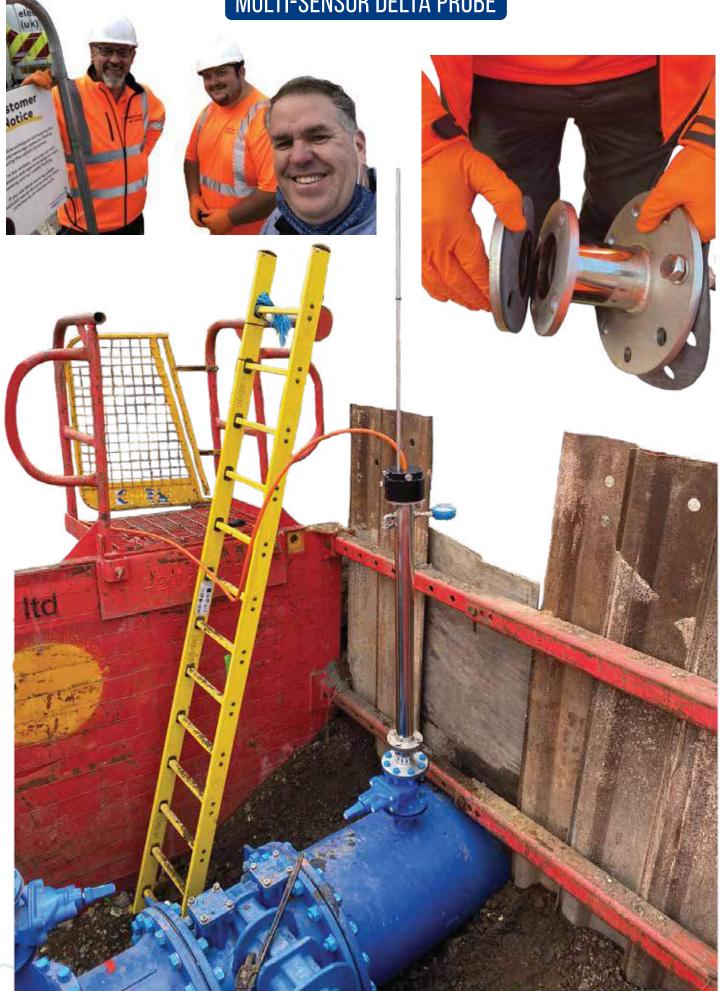




* Integrated Acoustic Sensor lets utilities compare results with Conductivity, revealing what they are "not" hearing.



MULTI-SENSOR DELTA PROBE





MULTI-SENSOR DELTA PROBE

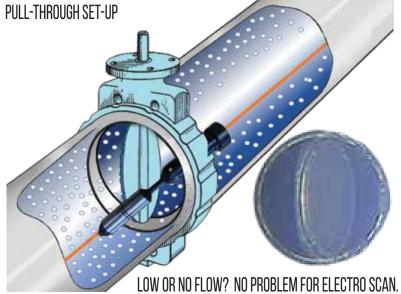
ONLY AVAILABLE AS A SERVICE BY AUTHORIZED CONTRACTORS





OVER 3,000 PRESSURIZED PIPE INSERTIONS



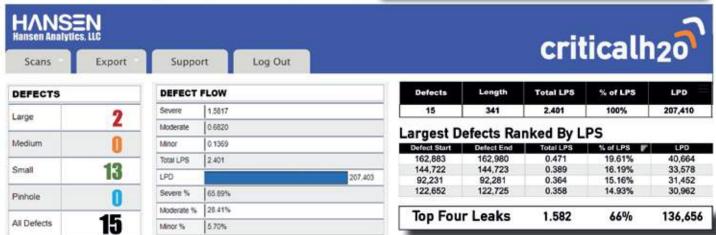


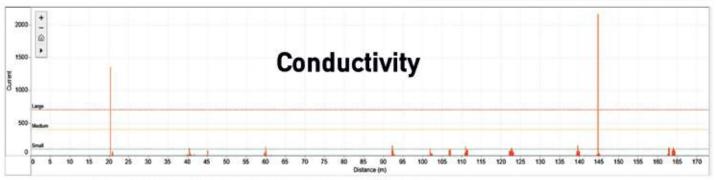


SAMPLE SURVEY DATA

Pipe	Description			
Length	170m (560ft)			
Diameter	600mm (24in)			
Material	Cement Mortar Lined Ductile Iron			
Pressure	130.5 psi (9 bar)			
Test Date	17 September 2020			
Prior Leak Testing	Hydrostatic Pressure Test (FAILED) Tethered Acoustic (NO LEAKS) Un-Tethered Sphere (NO LEAKS) Surface Data Logger (NO LEAKS) Listening Stick (NO LEAKS)			







Acoustic - ONLY FALSE-POSITIVES CCTV



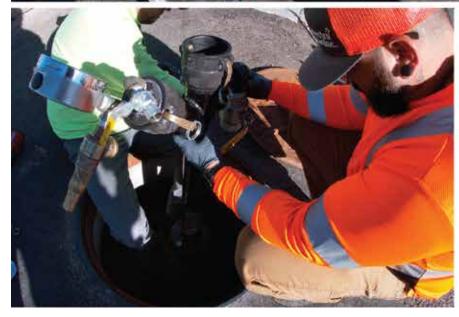


IN THE FIELD













IN THE FIELD





IN THE FIELD







MULTI-SENSOR TRIDENT PROBE

Pressurized Water Main Leak Detection. Finding & Measuring Leaks in GPM or LPS.











Condition	Performance
Probe Sensors	Low Voltage Conductivity FELL and CCTV
Pipe Diameters	4-10 inches (100-255mm)
Pressure	0 to 160 psi (11 bar)
Temperatures	5-30°C, 41-86°F
Flow Rate	Push Cable able to handle flow or no-flow conditions
Pricing	Per Day or Per Meter Based on Total Project Size
Launch Points	Hydrants, Air Release Valves, Blow Off Valves,
	Gate Valves, Hot Taps, Meters
Pipe Length Per Survey	Up to 400ft (120m) in either direction from access
Construction	High impact ABS & powder-coated, zinc-plated mild steel
Dimensions (Length x Width)	5 inches x 1.6 inches
Camera Features	Display: 10.1", 1280 x 800 HD color TFT
	Storage: Internal 128Gb, USB flash storage supported
	Power Options: Mains Input (100-240 VAC),
	DC Output (16 VDC) or Built-In Battery (4S2P)
	Focal Range: 10mm to ∞
	Active Pixels: 768 x 492 (NTSC) / 765 x 582 (PAL)

LED Luminance: ≥ 208 Lumens

Resolution: ≥ 460 TVL



STANDARD OPERATING PROCEDURE

Hydrant, Hot Tap, or Valve Hydrant Entry Hot Tap







Actual Field Insertion









Chlorination & Cleaning







In addition to passing 'materials in contact' testing requirements, Electro Scan does not use any equipment except as designed for water networks, with all components cleaned & sanitized befo

Insertion Tube







Electro Scan's insertion tube is carefully lowered secured before inserting its multi-sensor probe.

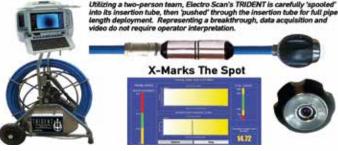
Probe Launch







Data & Video Capture



CCTV Push Forward Direction

Closed-Circuit Television (CCTV) video is automatically captured and streamed real-time so operators can navigate through valves and around obstructions.



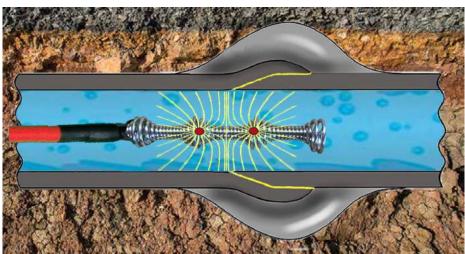
Electro Scan Pull Back Direction





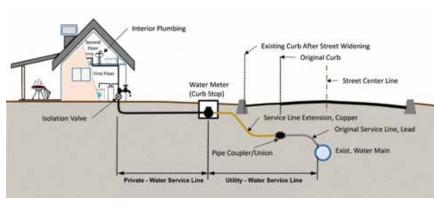
SWORDFISH





APPLICATIONS

SWORDFISH IS THE WORLD'S FIRST HAND-HELD BURIED LEAD PIPE DETECTION TOOL. USING AN AUTO-FED CABLE AND LOW-VOLTAGE CONDUCTIVITY PROBE, SWORDFISH AUTOMATICALLY IDENTIFIES LEAD PIPES. READINGS ARE TRANSMITTED IN REAL-TIME TO ELECTRO SCAN'S CRITICAL H2O CLOUD APPLICATION, WITH RESULTS INDEPENDENTLY VERIFIED USING 3M LEAD TEST KITS FOR 100% VERIFICATION OF LEAD PIPE.





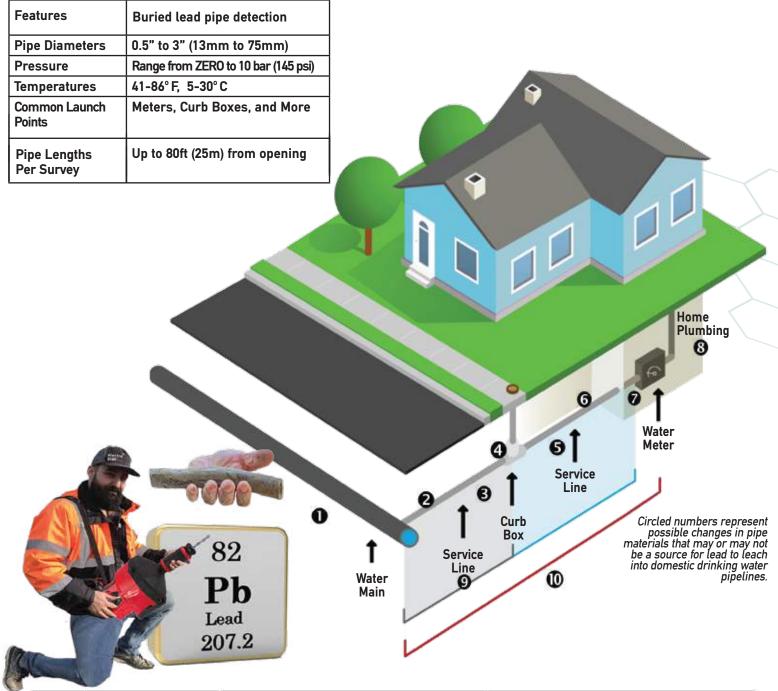
BURIED LEAD PIPE DETECTION







SWORDFISH







LINE LOCATION

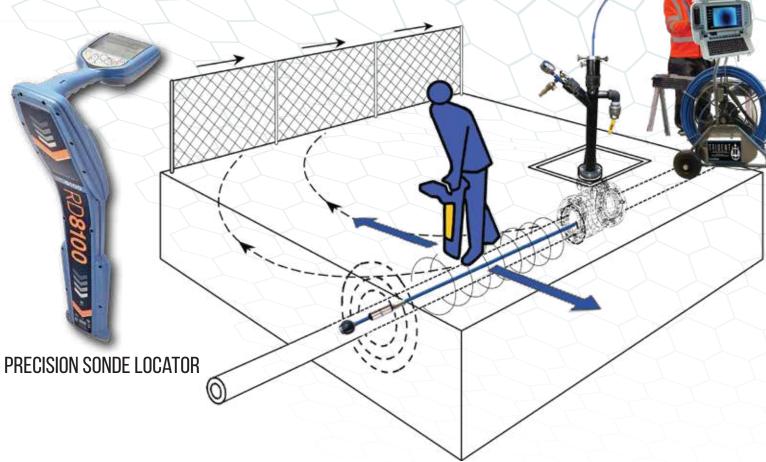




DRAWBACK OF GROUND PENETRATING RADAR:
DIFFICULT TO LOCATE WATER MAINS







LOCATE LINES WITH THE TRIDENT PROBE'S BUILT-IN SONDE

electro scaning.



WATER LEAK TRAINING CENTER



INSTRUCTION



HANDS-ON TRAINING



IN-PIPE NAVIGATION



AUTOMATIC DATA CAPTURE

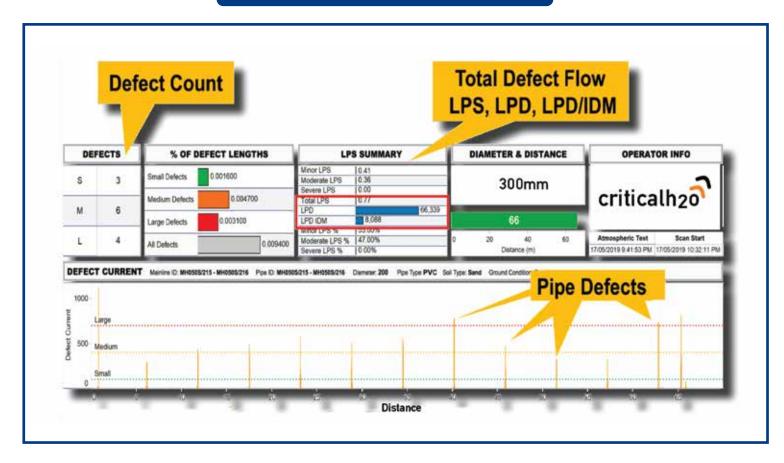








CRITICAL H20 CLOUD APPLICATION







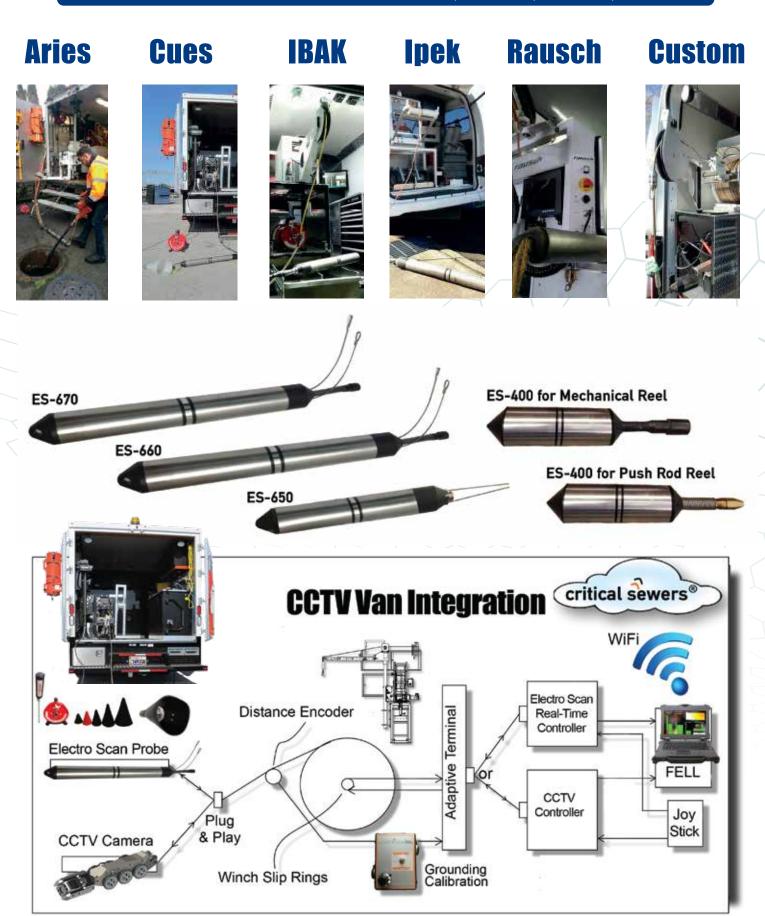




SEWER INFILTRATION PRODUCTS



ES-600 CCTV TRUCK INTEGRATION ES-670, ES-660, ES-650, ES-400





ES-600 STANDARD SPECIFICATIONS AND FEATURES

	Conveyance	Combined Sewer & Storm Systems, Separated Gravity Mains, Gravity Water Mains, Force Mains, Siphons, and Stormwater Networks.					
	Required Flow	None. Dry, Partic	None. Dry, Partially, or Fully-Surcharged Flow. Aided by Jet Truck.				
		Pipe Diameters	ES-670: Up to 72 inch ES-660: 6 to 60 inch ES-650: 6 to 30 inch ES-400: 4 to 16 inch	(150 to 1500mm) (150 to 800mm)			
	Pipes	Pipe Shape	Any, including Circular, Box, Egg-shaped, Oval, and Trapezoidal.				
		Pipe Materials	Any Electrically Non-Conductive Pipe Walls, including Asbestos Cement, Brick, Cement Mortar Lined and Coated Steel, Cured-In-Place Pipe, Ductile Iron with Epoxy Coatings, Fiberglass Reinforced Pipe, High-Density Polyethylene Pipe, Prestressed Concrete Cylinder Pipe, Polyethylene, Polyvinyl Chloride, Reinforced Concrete, Vitrified Clay Pipe, etc.				
Y		Dimensions	ES-660 & ES-670 Leng	th: 36 in (914mm); Diameter: 3 in (76mm)			
ES-600 Series		Scan Recording	Critical Sewers® Field Laptop PC, Wifi Connection to Critical Sewers® Cloud Application.				
		Speed	45-60 ft/minute (15-20 meters/minute)				
	System Specification	Operating Temperature	20°F to 120°F (-7°C to 50°C)				
		Power Supply	120VAC / 60Hz - or - 220VAC / 50Hz				
		Range	1,500 ft (460m) range from single point of access.				
		Current (max)	40 mA				
		Electrical Array	Focused tri-electrode array				
		Defect Flow Calculation	± 30% Accuracy measured in Gallons Per Minute (GPM) or Liters Per Second (LPS).				
		Defect Location	ES-650 & ES-660 ±0.4	inches (1cm) ES-670 ±1 inch (2.5cm)			
	Advantages	 No manual coding required. Finds & measures all leaks at cracks, joints, tap connections, and pipe wall Measures leaks in GPM (LPS). No bypass pumping required for inspection. Use in field rain or shine. Recommended for all Pre- and Post-Rehabilitation. Finds defects not seen by CCTV, such as inside joints. Differentiates superficial cracks from cracks through pipe. 		 Repeatable test results, as verified by US, UK, German, Japanese, and Australian testing. Finds & measures defects hidden by grease, silt, & encrustation. Automatically evaluates 360° of pipe wall. Determines water tightness of sewers & lateral connections. Robust design has no moving parts. Recommended by WRc, developers of NASSCO CCTV Codes. Reports available in minutes, not hours, days, or weeks. 			
	Limitations	Does not provide a clock position of defect location inside the pipe, but location is accurate to within 0.4 inches (1cm). Cannot scan pipes with obstructions or collapsed sections.					



ES-600 PORTABLE ES-670, ES-660, ES-650, & ES-400

PORTABLE SYSTEMS UTILIZE CUES K2 PORTABLE REEL OR EQUIVALENT

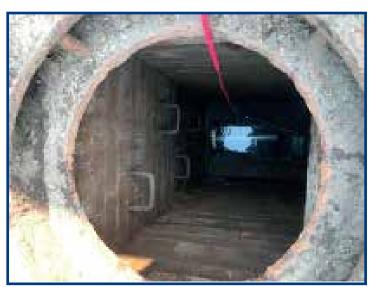




*FOR DIFFICULT TO ACCESS LOCATIONS AND EQUIPMENT PORTABILITY.







electro scaning.

ES-400 PUSH ROD

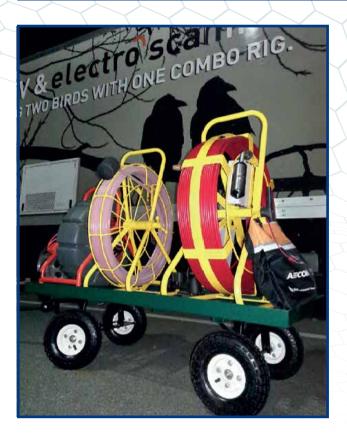
	PIPES	PIPE DIAMETERS	4 TO 24 INCH (100 TO 600MM)
		PIPE SHAPE	ANY, INCLUDING CIRCULAR, BOX, EGG-SHAPED, OVAL, AND TRAPEZOIDAL.
ES-400		PIPE MATERIALS	ELECTRICALLY NON-CONDUCTIVE PIPE WALLS, INCLUDING ASBESTOS CEMENT, BRICK, CEMENT MORTAR LINED AND COATED STEEL, CURED-IN-PLACE PIPE, DUCTILE IRON WITH EPOXY COATINGS, FIBERGLASS REINFORCED PIPE, HIGH-DENSITY POLYETHYLENE PIPE, PRESTRESSED CONCRETE CYLINDER PIPE, POLYETHYLENE, POLYVINYL CHLORIDE, REINFORCED CONCRETE, VITRIFIED CLAY PIPE, ETC.
		DIMENSIONS	LENGTH: 8 IN (203MM); DIAMETER: 2.2 IN (56MM)
	SYSTEM SPECIFICATION	SCAN RECORDING	CRITICAL SEWERS® FIELD LAPTOP PC, WIFI CONNECTION TO CRITICAL SEWERS® CLOUD APPLICATION.
		SPEED	30 FT/MINUTE (10M/MINUTE)
		ENVIRONMENTAL	IP 67. ABLE TO WITHSTAND RAIN AND LOW PRESSURE WASH DOWN. 20^{0} F to 120^{0} F (-7^{0} C to 50^{0} C)
		POWER SUPPLY	12V RECHARGEABLE EXTERNAL BATTERY PACK -OR- 12V DC EXTERNAL POWER SUPPLY.
		REEL	SPOOL DIAMETER 39 INCHES, L32 INCHES, W20 INCHES, H38 INCHES L81CM, W51CM, H96CM. LENGTH: 400 FT (120 M)
		CURRENT (MAX)	40 MA
		ELECTRICAL ARRAY	FOCUSED TRI-ELECTRODE ARRAY
		DEFECT FLOW CALCULATION	±30% ACCURACY MEASURED IN GALLONS PER MINUTE (GPM) OR LITERS PER SECOND (LPS)
		DEFECT LOCATION	±0.4 INCHES (1CM)
		WEIGHT	PROBE: 2.95 LB (1.34KG) TOTAL WEIGHT 80LBS (36KG)





ES-200 PUSH ROD

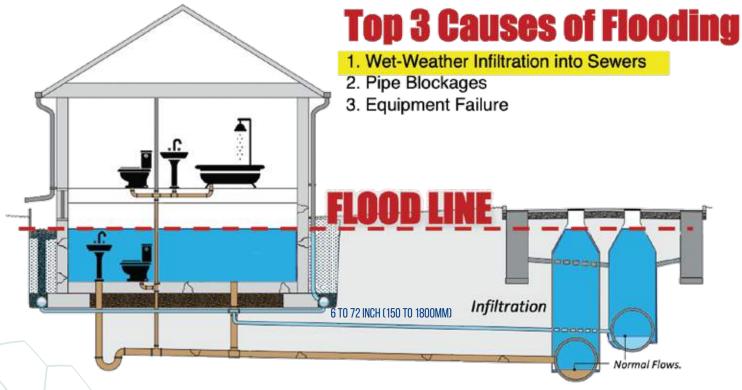
		PIPE DIAMETERS	3 TO 8 INCH (76 TO 200MM)
		PIPE SHAPE	ANY, INCLUDING CIRCULAR, BOX, EGG-SHAPED, OVAL, AND TRAPEZOIDAL.
	PIPES	PIPE_MATERIALS	ELECTRICALLY NON-CONDUCTIVE PIPE WALLS, INCLUDING ASBESTOS CEMENT, BRICK, CEMENT MORTAR LINED AND COATED STEEL, CURED-IN-PLACE PIPE, DUCTILE IRON WITH EPOXY COATINGS, FIBERGLASS REINFORCED PIPE, HIGH-DENSITY POLYETHYLENE PIPE, PRESTRESSED CONCRETE CYLINDER PIPE, POLYETHYLENE, POLYVINYL CHLORIDE, REINFORCED CONCRETE, VITRIFIED CLAY PIPE, ETC.
		DIMENSIONS	LENGTH: 6.5 INCHES (165MM); DIAMETER: 1.57 INCHES (39.88MM)
	SYSTEM	SCAN RECORDING	CRITICAL SEWERS® FIELD LAPTOP PC, WIFI CONNECTION TO CRITICAL SEWERS® CLOUD APPLICATION.
To 000	SPECIFICATION	SPEED	30 FT/MINUTE (10M/MINUTE)
ES-200		ENVIRONMENTAL	IP 67. ABLE TO WITHSTAND RAIN AND LOW PRESSURE WASH DOWN. 20 ⁰ f to 120 ⁰ f (-7 ⁰ c to 50 ⁰ c)
		POWER SUPPLY	12V RECHARGEABLE EXTERNAL BATTERY PACK -OR- 12V DC EXTERNAL POWER SUPPLY.
		REEL	SPOOL DIAMETER 26 INCHES, L26 INCHES, W12 INCHES, H32 INCHES L66CM, W30CM, H81CM. LENGTH: 400 FT (120 M)
		CURRENT (MAX)	40 MA
		ELECTRICAL ARRAY	FOCUSED TRI-ELECTRODE ARRAY
		DEFECT FLOW CALCULATION	±30% ACCURACY MEASURED IN GALLONS PER MINUTE (GPM) OR LITERS PER SECOND (LPS)
		DEFECT LOCATION	±0.4 INCHES (1CM)
	M Y Y	WEIGHT	PROBE: 1.1 LB (.50KG) 50LBS (23KG)







SEWER LATERAL ASSESSMENT





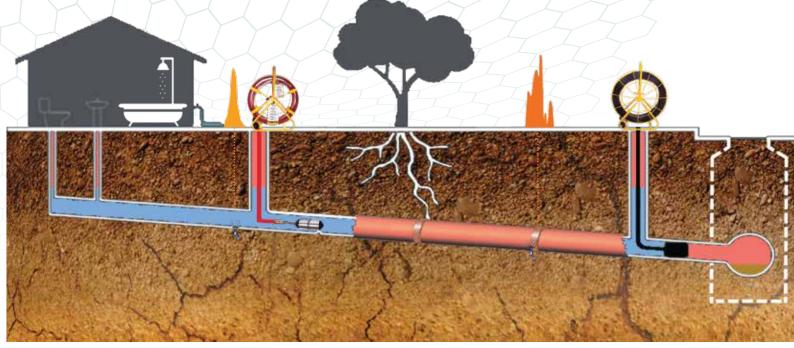








Focused Electrode Leak Location (FELL) is an Research "unambiguous way to detect leaks in service laterals."



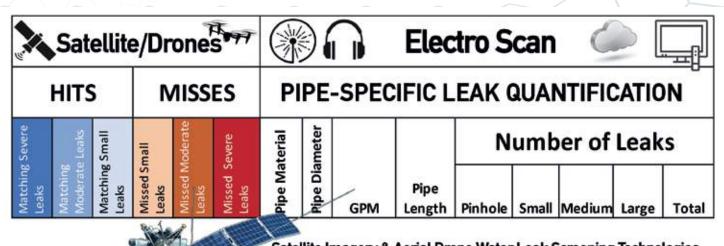


CRITICAL SEWERS® CLOUD APPLICATION





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USE ELECTRO SCAN AS YOUR 'BOOTS-ON-THE-GROUND' TO LOCATE WITH 1/2" / 1CM ACCURACY AND SEVERITY IN GPM / LPS

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