

ES-150 FOR SEWER DRAINS™



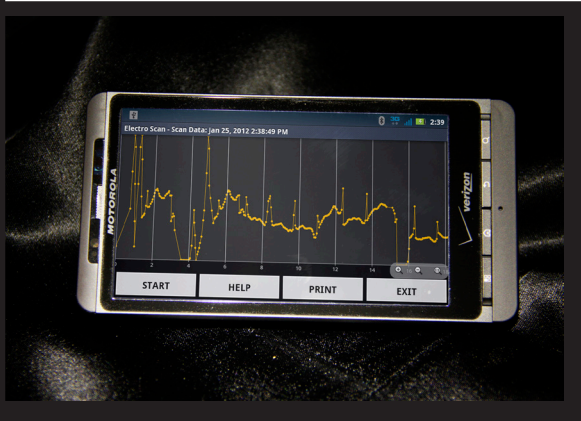
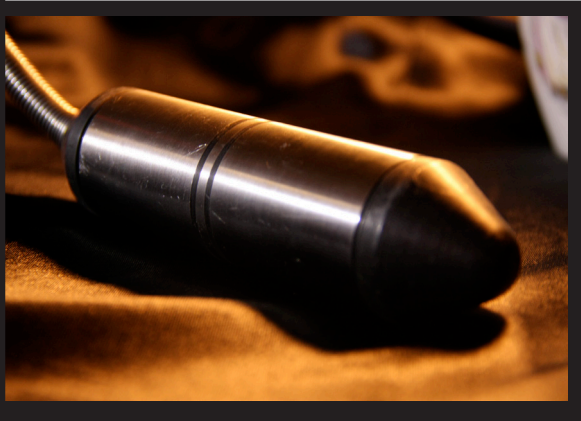
electro^{scan}inc.

THE NEXT GENERATION IN SEWER LEAK DETECTION

The ES-150 for Sewer Drains™ is designed for scanning sewer drains and laterals 75mm to 200mm in diameter, from a clean out, without the need to access the lateral from the main line. Electro Scan's proprietary technology measures the variations of electricity flowing through pipe defects, automatically transmitting defect location and relative size, accurate to within one (1) centimeter.

While electricity cannot not pass through non-conductive pipe walls (e.g. brick, cement, clay, reinforced concrete, plastic, pipe lining resins, etc.), it will pass through any defect that can cause water leaks.

The ES-150 for Sewer Drains, includes an ES-Probe Reel™, ES-Accessory Pack™, including items to facilitate recommended electrical grounding of the Electro Scan Probe, and ES-Smartphone Application, available for download from Google Play (i.e. formerly Android Market). Data is automatically sent via Bluetooth to the ES-Smartphone, where it is available for printing on an ES-Field Printer. Data is automatically transmitted to Electro Scan's CriticalSewers™ cloud application, where data is stored in a password-protected hosted environment, available for review, print, or export to Asset Management, GIS, and Hydraulic Modeling systems. Electro Scan Support Plans, priced separately.



ES-150 Probe			
Pipe	Diameter	75 to 200mm (3 to 8 inches)	Electrically non-conducting e.g. clay, plastic, concrete, reinforced concrete
Probe	Material	165mm (6.5 inches)	
	Diameter	40mm (0.57 inches)	
Distance	Accuracy	Negotiates 90 degree elbow in 3 inch pipe	
	Resolution	+/- 150mm (6 inches)	
Scan Speed	System	10mm (0.5 inches)	
	Shaft encoder pulley coupled to cable		
Scan Recorder	Smart Phone Operating System	10m/minute (30 ft/minute)	
Scan Processing & Reporting	Cloud Computing App	Bluetooth communication with Smartphone App Android 2.3	
	Transmitted via smart phone		
Cable	Type	According to Support Plan with access at www.criticalsewers.com	
	Length	6.4mm (1/4 inches) fiberglass push rod	
Reel	Diameter	60m (200 ft)	
	Weight	Diameter 66cm, L66cm, W30cm, H81cm (Diameter 26", L26", W12", H32")	
Power Supply	Internal Battery	12# AA Alkaline Dry Cell	
	Operation Duration	40 hours	
Environmental	IP 67	Low Battery Indicator	
	Operation Temp.	Withstand rain and low pressure wash down	
Warranty	Electronics	-4° to + 49° C (25° to + 120° F)	
	5 years		
Accessories (All Included)		Ground Stake Water and Salt Diffuser Probe Calibration & Ground Cable Reel: 30m (100ft) Probe Reel to Ground Reel Connection Cable Water Hose: 15m (50 ft) Accessories Bag Operations Manual	

Optional Equipment

ES-150 Air Push Rod	Plug	Type	Compatible with standard test balls
	Hose	Connection	Tire Valve
		Pressure	25 psi
Pump	Air Source	Manual Pump	
Reel	Length	Push Rod 30m (100 ft)	
	Type	Connectable to each other	
Field Printer	Diameter	High Volume Manual with Gauge	
	Weight	Diameter 61cm, L61cm, W28cm, H74cm (Diameter 24", L24", W11", H29")	
			12 kg (26 lb)
		Ruggedized Field Printer - Zebra RW-420	
		AC Adapter	
		Cigarette Lighter Adaptor	
		Two (2) rolls of 4" wide Printer Paper	

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Electro Scan ES-150™ Complies with ASTM Standard F2550-06

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