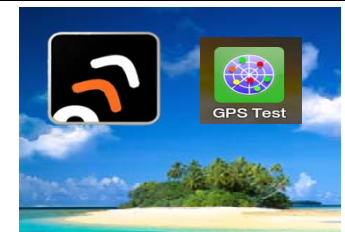
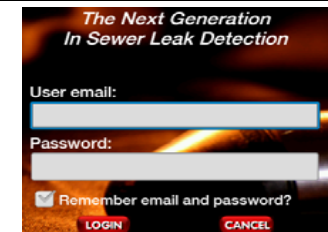






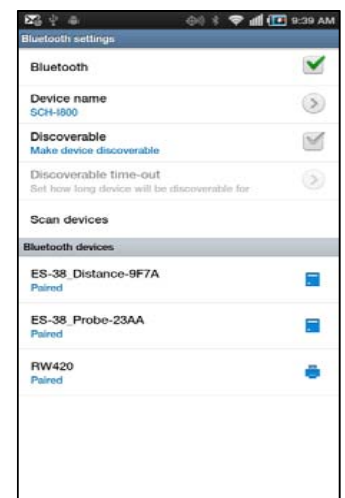

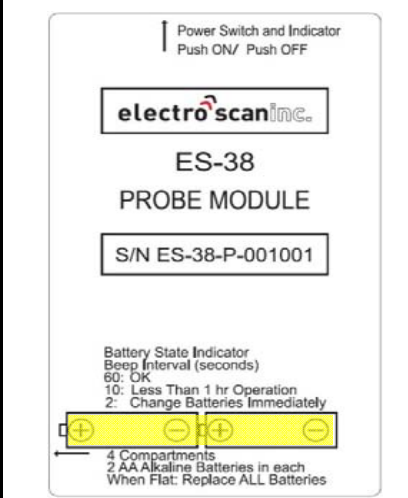
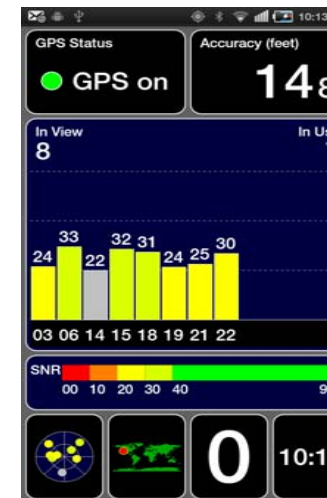
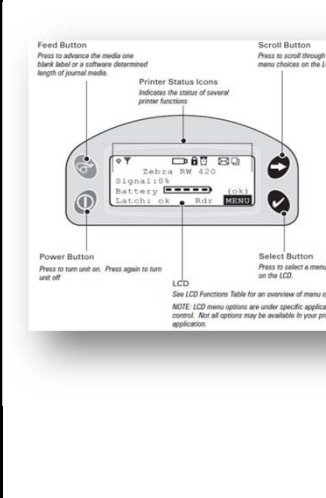
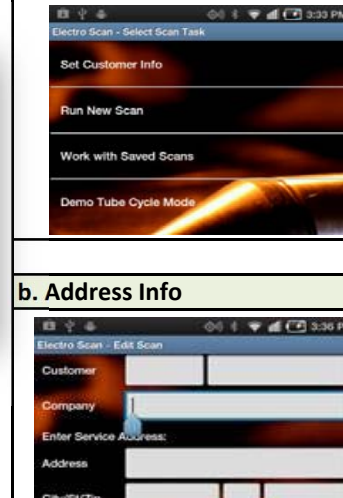
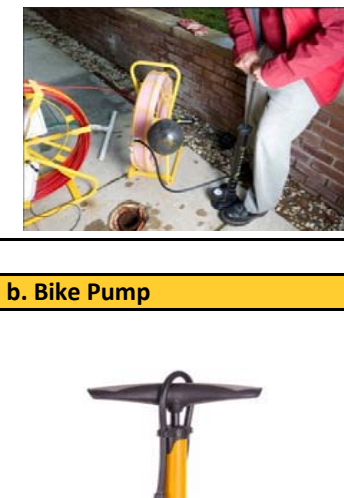




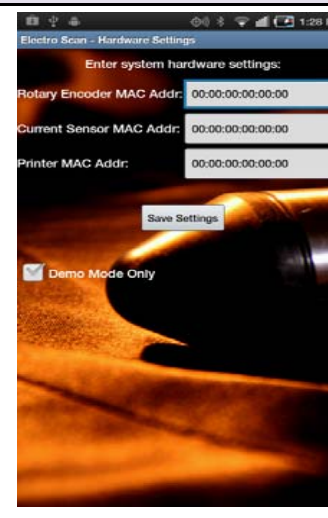
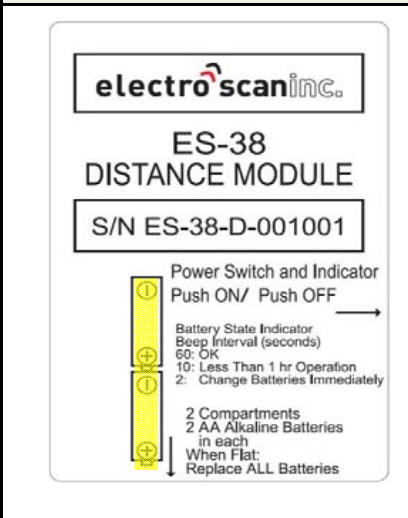

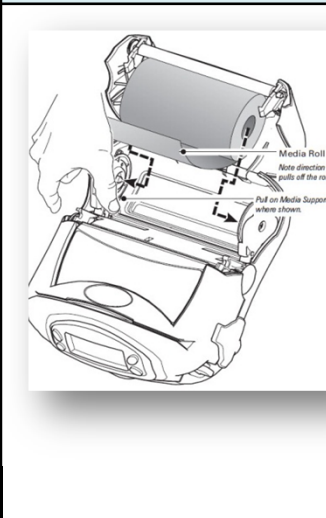
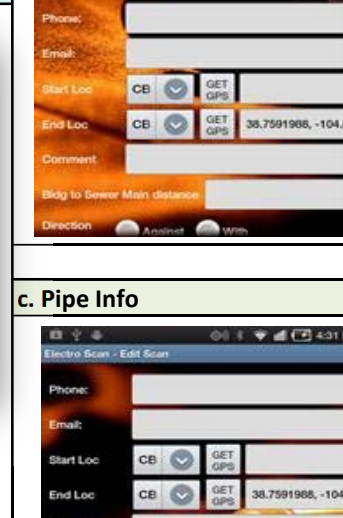



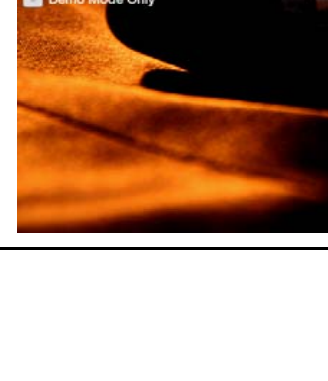
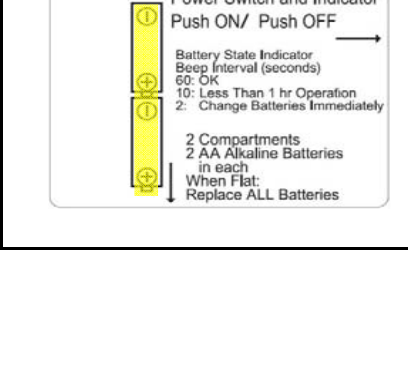
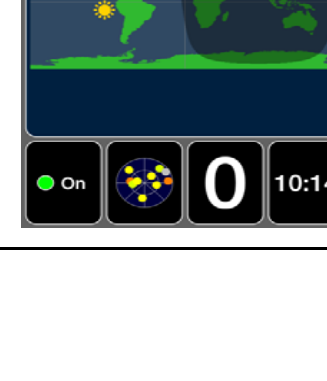
ES-38 for Sewer Laterals™ Field Guide

BEFORE LEAVING THE OFFICE

EQUIPMENT TESTING

1. Smartphone Pairing	2. Application Set Up	3. Battery Check	4. GPS Check	5. Printer Check	6. Customer Data	7. Air Push Rod Test	8. ES-38 Calibration
							

a. Bluetooth Pairing	a. Hardware Settings	a. Probe Module	a. Locational Accuracy	a. Battery Power	a. Set Customer Info	a. Pressure Test	a. Green (or black) wire to Reel
							

b. Enter MAC IDs	b. Distance Module	a. Positional Accuracy	b. Paper Stock	b. Address Info	b. Bike Pump	a. Red Wire to Yellow Socket	c. Touch Center w/ Alligator Clip
							
				c. Pipe Info	c. 10 PSI	a. Yellow Indicator > 50%	d. Yellow Indicator > 50%
							



ES-38 for Sewer Laterals™ Field Guide

PREPARING THE LATERAL		ELECTRO SCANNING				CLEAN-UP & STORAGE	REPORTING
9. Plug the Lateral	10. Filling the Lateral	11. Deploy Probe	12. Recording a Scan	13. Upload to Cloud	14. Print and Storage	15. Clean-Up	16. Cloud Reporting

a. Walk Off Estimated Length	a. Diffuser (If Needed)	a. Insert Probe	a. PRESS Record	a. Save and Send to Cloud	a. PRINT Button	a. Storage	a. www.CriticalSewers.com

b. Lubricate Plug	b. Add Salt (If Needed)	a. All the Way to Plug	b. PULL Probe Back	b. Electro Scan Servers	b. Zebra Printer	b. Storage	b. Data Display; Subject To Licensing

d. Insert Plug	c. Update Smartphone	c. Filtered Scans	c. Record a Map Sketch	b. GPM for Advanced Data Management Only
				Requires a per footage fee to provide GPM for each Pipe Segment and each Leak.

e. Extend to End of Pipe	d. Alternative #1	d. View Readings	e. CAUTION	ES-38 Probe						
			<table border="1"> <thead> <tr> <th>Velocity of Pull</th> <th>Rate of Measurement</th> </tr> </thead> <tbody> <tr> <td>0.5 ft/sec (1ft per 2 sec)</td> <td>30 current measurements per ft.</td> </tr> <tr> <td>0.15m/sec (1m per 6 sec)</td> <td>100 current measurements per meter.</td> </tr> </tbody> </table>	Velocity of Pull	Rate of Measurement	0.5 ft/sec (1ft per 2 sec)	30 current measurements per ft.	0.15m/sec (1m per 6 sec)	100 current measurements per meter.	
Velocity of Pull	Rate of Measurement									
0.5 ft/sec (1ft per 2 sec)	30 current measurements per ft.									
0.15m/sec (1m per 6 sec)	100 current measurements per meter.									

d. Inflate to 25 psi	d. Alternative #2	Accessories	Smartphone App	ES-38 Air Push Rod