


ES-620 for Sewer Mains™ Field Guide

JOB SITE PREPARATION EQUIPMENT SET-UP


1. Job Planning	2. Traffic Control	3. CCTV to Electro Scan	4. Grounding Reel	5. Mainline Console	6. Upstream Prep	7. Downstream Prep	8. Retrieve Jet Hose	9. Attach Funnel Plug	10. Jet Truck Operation
									






a. Map Book	a. Deploy Safety Cones	a. Shut Down CCTV System	a. Set-Up	a. Co. Registration	a. Position Truck to MH	a. Remove Manhole Lid	a. Remove Jet Nozzle	a. Lubricate Funnel Plug	a. Begin Retracting Hose
									


b. Map Sheet Review



c. ES-620 Field Guide

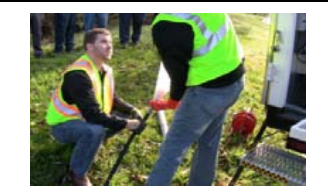
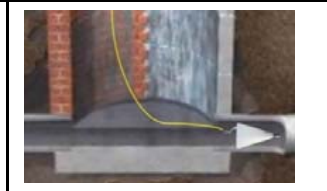


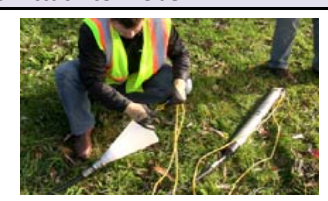

b. Switch CCTV to Electro Scan	b. Grounding Stake	b. Operator	b. Remove Manhole Lid	b. Jet Hose to Upstream MH
				



c. Connect Probe to Cable	c. System Options
	

b. Turn on Electro Scan Controller	d. Operator Logon
	

e. Sewer Agency


b. Attach Funnel Plug	b. Stop Funnel 6" into Pipe
	

c. Attach to Probe	c. Turn on Water
	

d. Sample Funnel Plug	d. Fill until over MH Bench
	



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ELECTRO SCANNING

GEAR REMOVAL & CLEAN-UP

REPORTING

11. Position Probe



12. Final Checks



13. Key Indicators



14. "Live" Scanning



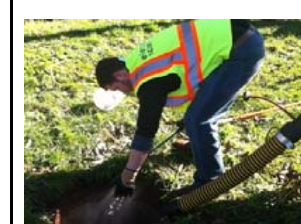
15. Completed Scan



16. Gear Removal



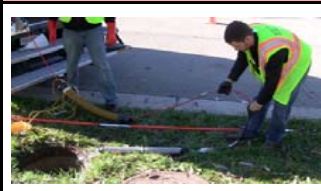
17. Clean-Up



18. Cloud Reporting



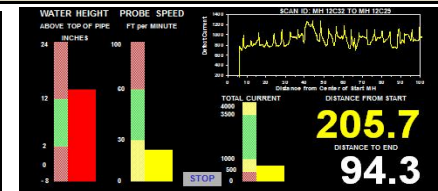
a. Layout Probe



a. Connection Check



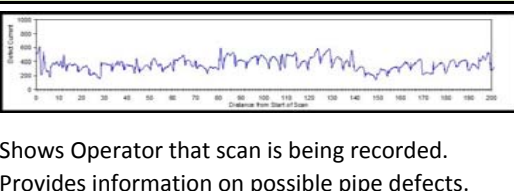
a. Water 'Too High' & Probe 'Too Slow'



a. Scan (In Process)



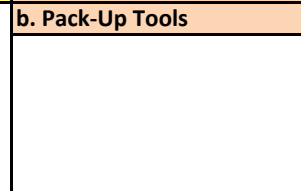
a. Raw Defect



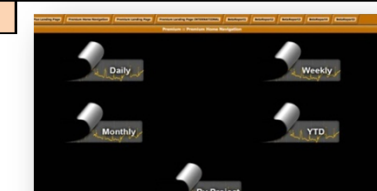
a. Stop Retraction When Funnel in DS



a. Clean-Up Equipment



a. www.CriticalSewers.com



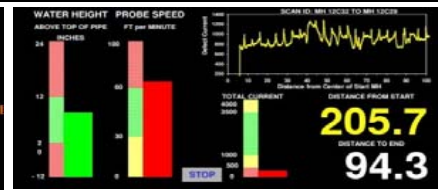
b. Insert Probe



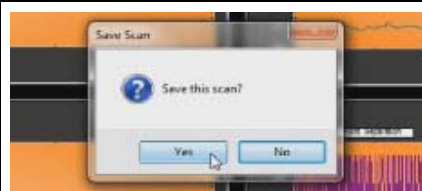
b. Connection Check



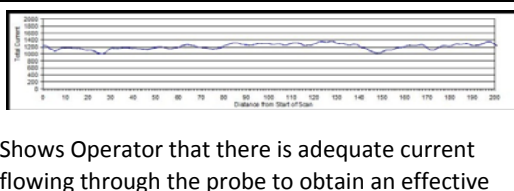
b. Probe Speed 'Too Fast'



c. Save Scan



b. Total Defect



b. Carefully Pull Probe into DS MH



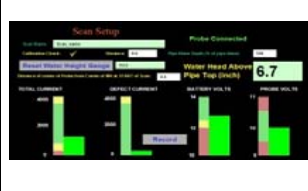
b. Data Display; Subject To Licencing



c. Single Pulley



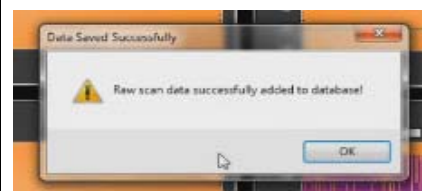
c. Scan Setup



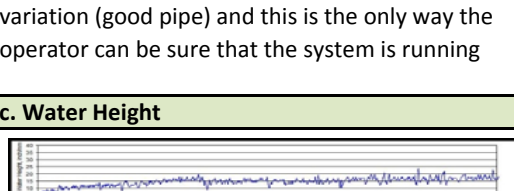
c. Total Current 'Too Low'



d. Successfully Added to Database



c. Water Height



c. Unhook Funnel Plug from Rope

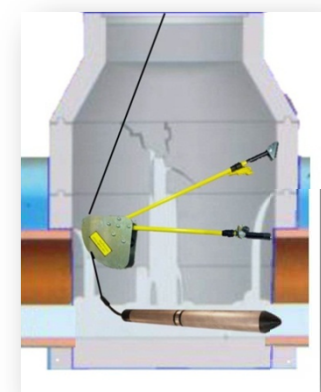


b. GPM for Advanced Data Management Only

Requires a per footage fee to provide GPM for each Pipe Segment and each Leak.



d. Side Wedge Pulley OPTIONAL

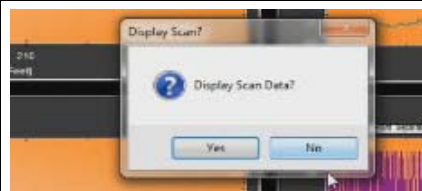


1. Total Current
2. Defect Current
3. Battery Volts
4. Probe Volts

d. All Readings 'Good'



e. Display Scan Data?

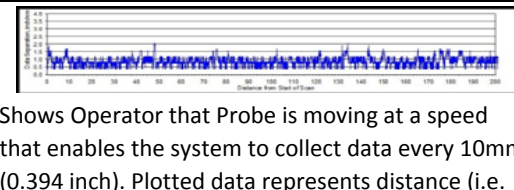


Shows Operator that the pipe is full at the probe location and that the pipe is not overfull. If the water height is too low then a scan of the complete pipe is not obtained. If the water height is too large there is a risk that houses will be flooded.

d. Pull Probe & Rope Back Thru Pipe



c. Data Integrity



Shows Operator that Probe is moving at a speed that enables the system to collect data every 10mm (0.394 inch). Plotted data represents distance (i.e. Data separation) between each defect current measurement. If the speed is too fast, the scan loses data fidelity (i.e. integrity) and will miss pipe defects. If the speed is too slow then too much time is taken to carry out the scan.

