

Compact SPiDER Scanner Offers Manhole Inspections on Difficult Sites

Utilities looking for a wireless color manhole inspection technology in a lightweight, compact form should consider using the SPiDER Scanner by CUES. The SPiDER collects millions of 3D measurements during each manhole inspection, ensuring the manhole is measured to less than 5 mm accuracy.

Weighing in at less than 30 pounds, the SPiDER can be hand-carried to easements or other difficult sites. This portability is possible because the processing computer and battery supply are integrated into the unit itself. Additionally, SPiDER does not require an inspection truck or other piece of equipment (other than the included tablet) for operational use.

MULTIPURPOSE TOOL

The SPiDER Scanner can calculate its position in a manhole shaft by using its sensor data to measure its incremental motion. The raw data is automatically post-processed to a 3D point cloud that provides engineering and survey quality information on manhole geometry and condition that can be used for structural assessment, pre- and post-rehabilitation analysis, hydrological surveys and general condition assessment.

The SPiDER also provides a live video stream and records video making it an ideal tool for inflow and infiltration studies which depend on live video to detect moving water.

According to Pierre Mikhail, CUES manhole inspection division director, the SPiDER scanner will provide a new outlook on how manhole data is collected and applied.

"CUES has a long-standing reputation for innovation and excellence in manhole and pipeline inspection and rehabilitation technology," says Mikhail. "It currently offers a range of tools from wireless handheld pole-mounted units to automated truck-mounted units that provide excellent productivity in manhole inspection and measurement. The SPiDER scanner is the future of making intelligent choices and prioritizing investment decisions."

CUES is a leading manufacturer of CCTV inspection, rehabilitation and pipe-profiling equipment, as well as pipeline inspection and asset management software. The equipment is designed for use in sanitary and storm sewers, industrial process lines and waterlines.

Headquartered in Orlando, Florida, the company dedicates 70,000 square feet and more than 230 full-time employees to serve and support customers.



Additional facilities with stocking warehouses and service personnel are located in southern and northern California, Georgia, Wisconsin, Oregon and Toronto. ♦



CUES warehouses stock more than \$10 million worth of inventory to support its customers and production requirements, resulting in reduced lead times for spare parts and completed systems. All systems and repairs are completed under strict quality-control standards, facilitating continuous improvement for all equipment.

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