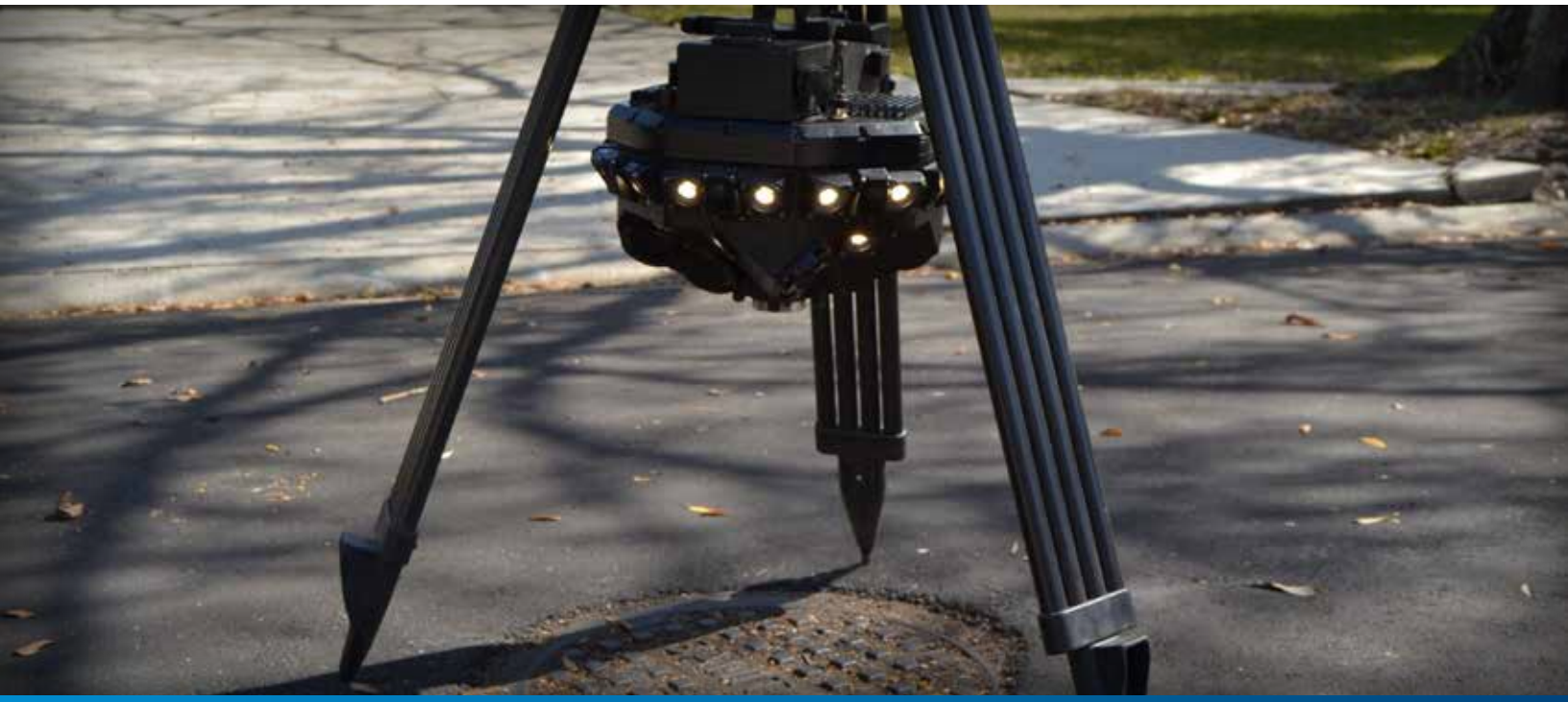
SPiDER
MANHOLE SCANNER

SPiDER



3D Wireless Manhole Scanning

SPiDER is a revolutionary portable manhole scanning technology

ACCURACY	SPEED	WEIGHT	CABLE
1 to 5 mm	5' (1.5 m) / min	35 lbs (16 kg)	none

>Tablet Controlled

> Measurable Color Point Cloud

> Wireless Connection

800.327.7791

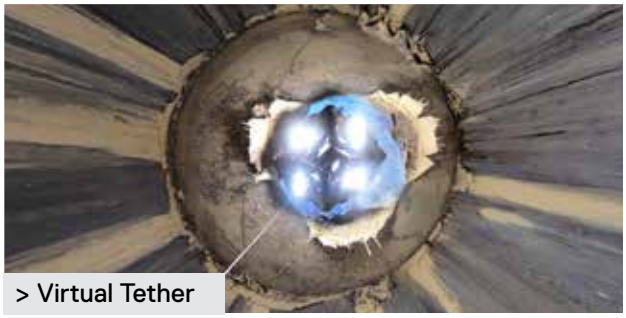
www.cuesinc.com | salesinfo@cuesinc.com

A new outlook on how manhole data is collected and applied! The SPiDER Scanner is the first wireless and color manhole inspection technology in a lightweight and compact form factor.

- Measurable Data
  SPiDER collects millions of three-dimensional (3D) points during each manhole scan that provides engineering and survey quality information on manhole geometry and condition. Output can be used for structural assessment, pre and post rehabilitation analysis, hydrological surveys, as well as general condition assessment.
- Portability
  SPiDER weighs less than 35 pounds (16 kg) and can be hand carried to difficult to access sites. Additionally, SPiDER does not require a truck or data/power cable for operational use. Scanning data is recorded on the unit.
- Tetherless Positioning
  SPiDER can calculate its position in the manhole shaft by using its internal sensor data to measure its incremental motion. This technology frees manhole scanning from problems associated with inaccurate, poorly calibrated cable counters and poorly managed cables.
- Tablet Controlled
  SPiDER is operated with a tablet which controls the scanner's cameras and lights.
- 3D, Textured Point Clouds
  SPiDER provides renderings of manhole geometry to provide three dimensional visualization that can be imported into a wide range of 3D viewers.
- File Format Deliverables
  - 3D MPEG Video (.MPG)
  - Point Cloud (.PLY) which can be converted to:
    - Surface Model (.STL)
    - CAD Model (.DXF)
    - Virtual Model (.OBJ)
  - MACP Report using your preferred NASSCO Certified Software
- Live Video
  SPiDER provides a 190 degree field-of-view live video stream - making it an ideal tool for Infiltration and Inflow (I&I) studies which depend on live video to detect moving water.

> Live Video

> Portability



> Virtual Tether

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