



**DUC**  
DIGITAL UNIVERSAL CAMERA

"The Standard of the Industry"



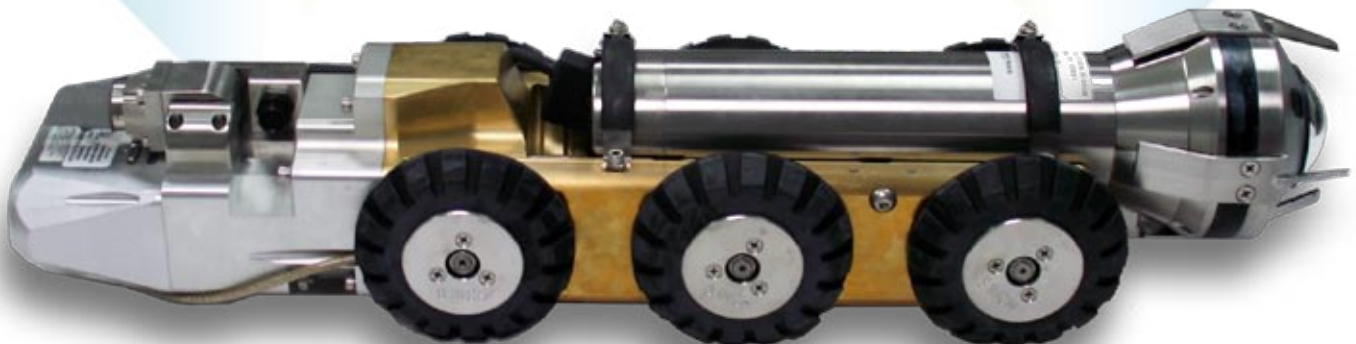
## DIGITAL UNIVERSAL CAMERA SYSTEM

*IMPROVE THE OPERATIONAL,  
ENVIRONMENTAL, AND FINANCIAL PERFORMANCE  
OF YOUR WASTEWATER SYSTEM TODAY!*

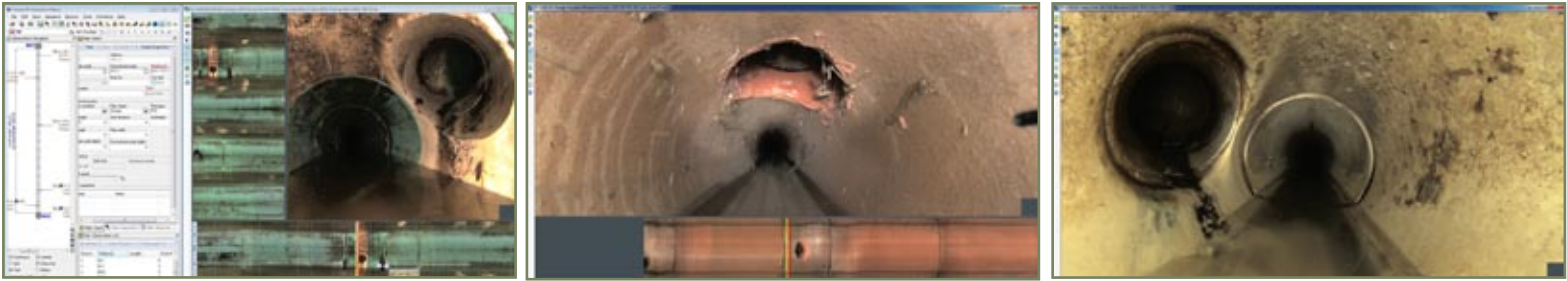


The CUES Digital Universal Camera (DUC) is a semi-autonomous, high resolution digital CCTV side scanning camera designed for rapid and detailed condition assessment of your wastewater system. When used in conjunction with CUES asset-based Granite XP decision support software, you can inspect and assess 5000 feet or more per day, increasing your revenue, while reducing your expenses. The system can be packaged for off-road applications to minimize the costs of traffic control.

The CUES Digital Universal Camera system produces a continuous hemispherical scan of the internal pipe conditions in 6"-60" pipe. The Digital Universal Camera operates at a constant speed in 6"-60" pipe without the need to stop or pan and tilt. Simply drive the unit on cruise control to the remote manhole or through multiple manholes for maximum efficiency. Reduce your labor costs while tripling or quadrupling the productivity of your existing workforce!



**The Digital Universal Camera System will outperform any autonomous robotic system. Call your CUES representative today!**



*The DUC Universal Camera System facilitates the following benefits:*

- Achieve proactive sewer repair and replacement recommendations with transparent justification to the public for allocation of sewer capital funds. The EPA has stated that proactive management of sewer assets can reduce total asset cost by 20-30%.
- Identify the most critical problems to address in your wastewater system. Quickly create an accurate understanding of the present condition of your wastewater system. Achieve predictive failure analysis, based on rapid, accurate, and detailed condition assessment.
- Establish a centralized system of record keeping accessible to all decision makers to assure proper, defensible spending.
- Identify short and long term concerns to be considered into your future CIP and O&M budgets.
- Establish solid priorities in order to maintain and improve services at any given time.
- Show compliance with local, state, and federal regulatory agencies.
- Maintain compliance with CMOM and GASB 34 while establishing a solid baseline to apply for various State and Federal grants.
- Protect your system from premature failure.
- Use life-cycle costing and value engineering to reduce the expense of planned investments.
- Identify, assess, and score your entire system within 12 months!

*The DUC Universal Camera System contains the following features and more:*

- Video is stitched via the CUES Granite XP Digital Processing Module and is available at the end of the inspection run. Virtual pan, tilt, and zoom plus a flat view of the surveyed pipe enables rapid condition assessment review-- 5-10 times faster than traditional video inspection review.
- Simply assign the observations via CUES asset-based Granite XP software in the office environment to create a high quality, uniform product.
- DUC can be used for emergency inspection requirements due to its unique ability to function as a traditional CCTV pan and tilt / zoom camera inspection system during live inspection.
- High output strobe lighting system illuminates 6"-60" lines without externally-mounted lighting.
- 3.1 megapixel high resolution camera produces unparalleled detailed images.
- One-person operation.
- Integration with CUES asset-based Granite XP decision support software and GIS systems provides a powerful tool for Capital Improvement Planning.
- Compatible with other data acquisition software systems.
- No moving parts on the camera – simply drive the unit on a CUES wheeled or tracked transporter through multiple pipe sections for maximum efficiency.
- DUC can be retrofitted to any CUES or industry standard multi conductor truck mounted system!
- Significantly more cost efficient than European digital camera systems!



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