

# ZOOM-IN ON YOUR SEWER PRIORITIES!



## CUES-IMX

### Truck-mounted Zoom Camera

CUES has partnered with InfraMetrix to develop the CUES-IMX truck-mounted camera! Collection system owners and operators can now reduce system operation / management costs and quickly identify high-risk areas of the wastewater / stormwater system. Make the best use of your time and money by using the CUES-IMX camera to locate these critical sewer maintenance and repair requirements. The camera offers unparalleled imaging technology with a 25:1 optical zoom that is stabilized and remotely controlled via a telescopic boom to produce picture clarity with enhanced detail up to 300 ft! The zooming capabilities provide the greatest protection against sewer backups and overflows, reduces collection system operation and maintenance costs, and increases performance!

“The Standard of the Industry”



**InfraMetrix**<sup>SM</sup>

INFRASTRUCTURE DIAGNOSTIC SERVICES

*help prioritize and  
identify sewer issues!*

### Features & Benefits:

- Help prioritize and identify sewer issues
- Swiftly locate problem areas of the pipe
- Quickly identify maintenance requirements and identify structural defects to prevent sewer overflows
- Inspect storm drains with flow without the need for a float
- Pre-inspect pipelines prior to bidding jobs
- Helps you comply with CMOM & GASB34 requirements
- Determines where to begin CCTV
- Featured on the EPA website as an innovative technology
- Designed for use in pipes 6" in diameter and up with the ability to illuminate and inspect manholes and large diameter pipes at distances up to 300'
- Designed to provide close-up views of pipes during inspection and/or periodic maintenance to preclude blockages, leaks, in-line obstructions, etc
- Base unit consists of the following: boom, mast, controller, camera, and integral/external lighting
- Designed to operate optimally with any TV inspection vehicle
- Designed to perform mainline inspections without the need for a camera transporter
- Designed to prevent the need for an operator to enter the manhole to position and/or reposition the camera height
- Designed to gage the manhole depth
- Mast is designed to position the camera 25ft below the surface of the road
- Optional compass is available to support GIS systems



Specifications subject to change without prior notice.

Visit our web site at [www.cuesinc.com](http://www.cuesinc.com)

## CUES-IMX Truck-mounted Zoom Camera System Equipment

### CAMERA

- Optical Zoom Range: 25x; Digital Zoom Range: 1x through 12x
- Total effective zoom ratio: 300x
- Designed to radiate and deflect heat produced by the light head
- Remotely controlled from the control console
- The mounting fork is designed to pan the camera head 360 degrees continuously, tilt mechanically 35 degrees up, 90 degrees down, and tilt optically 166 degrees; camera forks are rounded or chamfered and do not exceed 5 inches in diameter
- The camera imager, optics, mechanics, and electronics are housed in a damage resistant, waterproof, rugged enclosure: Dimensions: 7" diameter and 16" long
- The front camera head housing includes a view port of distortion free, heat resistant glass



### LIGHTING

*Camera Integral HID Lighting* - The camera includes (4) HID spot lights and one (1) flood light centered above the lens:

- Each of the five (5) lights are individually sealed to prevent water entry
- Four (4) HID spot lights have a total light output equivalent to 200 watts of halogen light
- One (1) HID flood light has a total light output equivalent to 50 watts of halogen light

*Camera External Lighthoods* - The camera includes two (2) quick disconnect external lighthood assemblies, each lighthood assembly consisting of two lighthoods on each side of the camera, that are directional with the pan and tilt movements of the camera head:

- The high performance lighthoods provide a total of 340 watts of light, 170 watts per lighthood assembly.
- Each lighthood is constructed of aluminum with a hard, anodized coating that is scratch and wear resistant.
- Each lighthood assembly is designed for easy servicing and bulb replacement in the field without having to remove the lighthood from the camera.
- External lighting is designed to move relative to the camera lens to provide directional illumination.

### MAST SYSTEM

- The truck-mounted mast can position the camera 25ft below the surface of the road and is designed to achieve optimum picture stability throughout the optical zoom range of the camera
- The camera unit can be electronically raised and lowered
- The camera and mast is controlled electronically from the truck control room and can function with separate camera and mast controllers.
- The mast can be repositioned to optimize the camera alignment when inserting into the mainline pipe or during the inspection.
- Prevents the need for an operator to enter the manhole to position and/or reposition the camera height.
- Perform mainline inspections and gauge the manhole depth without the need for a camera transporter!
- Can be installed on existing TV inspection systems without the need for modifications to other existing equipment already installed on the unit

**CONTROLLER** – for remote control of the camera assembly

*Camera Controller*

- The mounting surface for the joystick, switches, and LED is angled for ease-of- use.
- RS-232 maintenance port is provided
- 360 degree camera position indicator can be displayed on video and zeroed at any position to establish a point of reference for the inspection

*Controller Pushbuttons* -The pushbuttons are mounted on the front, top, and rear of the controller:

- Focus: Near and Far
- Zoom: In and Out
- Iris: Open and Close
- Autofocus and Lamps
- Shutter: Fast and Slow
- Pan, Tilt, Zoom Home and Tilt Home
- Gain: Up and Down
- Autofocus: On and Off
- Autoexposure: On and Off
- Display diagnostics

*Joystick*

- Move the camera head in four directions: Up, Down, Left, Right
- Mounted in the middle of the controller's front panel
- Controls the movement of the camera head