

“The Standard of the Industry”



## OZII

### Pan and Tilt Optical Zoom Camera

The OZII & Nite Lite cameras include an optional sonde to accurately locate the camera in metallic and non-metallic pipes!



Available in multi or single conductor format, the OZII optical zoom pan-and-tilt camera system offers unparalleled imaging technology and built-in lighting for 6” to 72” pipe to produce clarity of picture with enhanced detail. Auxiliary lighting is available to inspect 84” through 200” diameter pipe. The OZII camera provides up to 40:1 optical/digital zoom, automatic focus, remote focus and iris control to assure the highest quality picture within varying pipe conditions. When an obstruction blocks movement in a pipe or for quick-look inspections, details can be observed from far-away distances with perfect clarity. Get the finest detailed video inspections with the CUES OZ II (Optical Zoom) Camera!

CUES “*Light Enhancement Technology*” eliminates the need for an external lighthouse. Easy operation at the controller allows the operator to change the sensitivity of the camera at their fingertips. There’s no need to remove the camera to install an external lighthouse if the pipe material or pipe diameter changes. Let the CUES “*Light Enhancement Technology*” do it for you!

### Features & Benefits:

- ◆ 10X optical zoom and 4X digital zoom; total 40:1 zoom capability; *Enhances image details from faraway distances for inspection and assessment*
- ◆ NTSC at 470 H lines of resolution; *Higher image resolution means sharper pictures with maximum detail*
- ◆ Sensitivity: 1.5 lux (F1.8, 1/60 s) and 0.13 lux (F1.8,); PAL Version is also available. 1/4 s) Electronic shutter speed: 1/4 to 1/10,000 s; *Increased sensitivity provides brighter pictures with reduced lighting requirements*
- ◆ 360 x 285 degree pan and rotate viewing capability; *Detailed lateral inspection up to 250 feet without having to traverse the lateral*
- ◆ Four field replaceable lights (available with white LEDs or halogen lamps); *Internal lights are directional with the moving camera head for optimum illumination in various pipeline conditions*
- ◆ Back light compensation; *No spotlight reflection blooming in image*
- ◆ Auto-tracking white balance; *Perfect color under all conditions*
- ◆ Auto-focus; *Quickly focus on an area of interest*
- ◆ Manual override of focus, iris, and shutter; *Flexible for unusual or special conditions*
- ◆ Pan, rotate, zoom, and focus homing; *Quick and easy to reorient to the current location*
- ◆ Waterproof to 50 psi; *Camera can be submerged in water over 100 feet deep without compromising integrity*
- ◆ 400 degree rotation optical viewing angle; 331 degree pan viewing angle range; *View minute defects and voids around the entire diameter of the pipe wall*
- ◆ Compatible with up to 4000’ multi-conductor cable and up to 2000’ single-conductor cable; *Camera is compatible with existing CUES TV inspection systems with minimal modification*
- ◆ Can be used in pipelines as small as 5”
- ◆ Optical-grade sapphire camera window; *Helps prevent image distortion*
- ◆ Includes an internal diagnostic system; *Continually monitors camera functions, including run time, serial number identification, camera head temperature, humidity, light supply voltage, and camera input voltage*
- ◆ An optional built-in inclinometer is available to read and transmit pipe grade variations
- ◆ The OZII & Nite Lite II cameras include an optional sonde to accurately locate the camera in metallic and non-metallic pipes



The Nite Lite camera includes an optional sonde to accurately locate the camera in metallic and non-metallic pipes!

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## NITE LITE

### Pan-and-Tilt TV Inspection Camera

The Nite Lite is a unique pan-and-tilt inspection camera that incorporates the latest video technology to provide up-close imaging of pipe walls and surfaces during sewer line inspections of 6" relined pipe through 200" diameter pipe. Available in multi or single conductor formats, the Nite Lite pan-and-tilt camera system offers unparalleled imaging technology to produce the clarity of pictures with enhanced detail. The Nite Lite camera is designed to pan 285 degrees and rotate 360 degrees. Remote control for iris and focus is provided to assure the highest picture quality in unusual or special conditions. An optional built-in inclinometer is available to read and transmit pipe grade variations

### Easy Upgrade to the OZII optical zoom camera!

The Nite Lite can be easily upgraded to include 10x optical zoom and 4x digital zoom! Refer to the OZII information on the opposite page!



*Nite Lite shown with the CUES Steerable Pipe Ranger*

