

"The Standard of the Industry"



# LAMP II

## Lateral & Mainline Probe

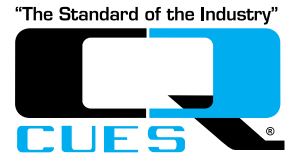


The self-propelled, robust LAMP II is a CCTV pipeline inspection tool for identifying infiltration and inflow, potential crossbores, pipe defects, and structural conditions in lateral services and mainlines. The LAMP II is able to accomplish this by utilizing a self-propelled lateral launcher, transportation platform, and two cameras, one for pan/tilt/optical zoom operations (mainline) and one for lateral launching. The LAMP II with the optional Mini Pan & Tilt Camera will inspect laterals services and traverse multiple bends and wyes when deployed with or against the flow.

LAMP II shown with the optional Mini Pan & Tilt Camera.

# LAMPPII Lateral & Mainline Probe

## Features & Benefits



True one-pass mainline and lateral inspection; inspect more in less time.



Self-leveling lateral camera with built in sonde.



Traverse multiple bends and wyes with or against the flow.



Can be added onto existing CUES units.



PAN & TILT INSPECTION OF ALL LATERAL CONNECTIONS, WITH OR AGAINST THE FLOW! SIMULTANEOUS PAN, TILT & ZOOM INSPECTION OF MAINLINES!

- Easily launches with or against the flow.
- Inspect mainlines and laterals with one inspection run.
- Front-mounted pan and tilt / zoom camera (40:1 optical/digital zoom); Completes mainline inspection and monitors lateral camera; Articulates to facilitate invert entry; Automatic centering.
- Traverse up to 1,000' of mainline pipe while still being able to launch into laterals.
- Self-leveling lateral camera with built in sonde.
- Supplied with 4 sets of wheels for 6"-30" lines.
- Traverses 45 and 90 degree bends in lateral services.
- Fiberglass push cable: up to 150 ft. push cable.
- Rear tip-up connector.
- Optional Equipment: mini pan & tilt lateral camera with directional rod for steering; rear-view camera; high traction steel wheel sets; big pipe package available to increase pipe size range to 36".
- Robust 6 wheel drive with single point wheel removal.
- Can be added onto existing CUES units.

# MICRO

Pan & Tilt Camera



THE CUES MICRO PAN & TILT CAMERA IS DESIGNED TO WORK WITH THE LAMP II LATERAL LAUNCHER.

Use the optional CUES Micro Pan & Tilt Camera with the CUES LAMP II for pipe inspections. The CUES Micro Pan & Tilt Camera is designed to navigate through multiple wyes and 45 and 90 degree bends / sweeps with the integrated directional rod. All pan and tilt functionality is integrated into the systems' controller.

The Micro Pan & Tilt Camera includes a detachable steering wand, self-leveling camera head, built in lens wiper, 360 degrees pan and tilt, (2) banks of LED's with variable light intensity, and a built in sonde with switchable frequencies.



# MICRO Pan & Tilt Camera

## Features & Benefits



- Rotation: Continuous 360 degree rotation; Pan: Continuous 360 degree rotation.
- Illumination: White LED Lighting.
- Scratch-resistant sapphire window.
- Ability to direct the camera and lights to observe all defects, including joint separations, cracks, offsets, spotting, and roots.
- Built-in multi-frequency sonde transmitter; 512 Hz or 8 kHz.
- Detachable steering wand provides the ability to navigate through multiple wyes.
- Built in lens wiper.
- Self-leveling camera head.
- LED lighting with variable intensity.
- Rugged carrying case.



Built in multi-frequency sonde transmitter; 512 Hz or 8 kHz.



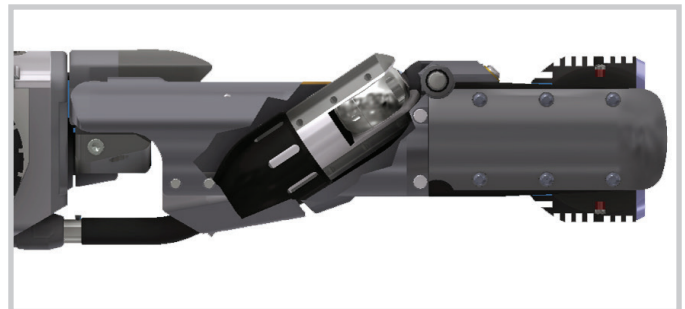
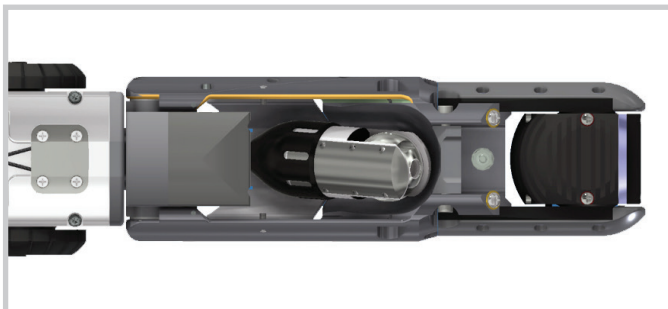
Direct the camera and lights to observe all pipeline defects.



Built in camera lens wiper; no need to remove the camera from the pipe to clean the lens.



Detachable steering wand to navigate through multiple wyes.



# MINI Pan & Tilt Camera



THE CUES MINI PAN & TILT CAMERA IS DESIGNED TO WORK WITH THE LAMPPI LATERAL LAUNCHER OR WITH THE MPLUS+ XL SYSTEM FOR MAINLINE PIPE INSPECTIONS.

The Mini Pan & Tilt Camera is designed to navigate through multiple wyes and 45 and 90 degree bends / sweeps with the integrated directional rod. All pan and tilt functionality is integrated into the systems controller.



# MINI Pan & Tilt Camera

## Features & Benefits

- Rotation: Continuous 360 degree rotation;  
Pan: Continuous 360 degree rotation.
- Illumination: White LED Lighting.
- Scratch-resistant sapphire window.
- Ability to direct the camera and lights to observe all defects, including joint separations, cracks, offsets, spotting, and roots.
- Built-in multi-frequency sonde transmitter; 512 Hz or 8 kHz.
- Detachable steering wand provides the ability to navigate through multiple wyes.
- Built in lens wiper.
- Self-leveling camera head.
- LED lighting with variable intensity.
- Rugged carrying case.
- Optional skid packages available for mainline use.



Built in multi-frequency sonde transmitter; 512 Hz or 8 kHz.



Direct the camera and lights to observe all pipeline defects.



Built in camera lens wiper; no need to remove the camera from the pipe to clean the lens.



Detachable steering wand to navigate through multiple wyes.



Use the optional CUES Mini Pan & Tilt Camera with the CUES LAMP II or MPlus+ XL system for mainline pipe inspections. The Mini Pan & Tilt Camera includes a detachable steering wand, self-leveling camera head, built in lens wiper, 360 degrees pan and tilt, (4) banks of LED's with variable light intensity, and a built in sonde with switchable frequencies.