

"The Standard of the Industry"



Pipe Ranger

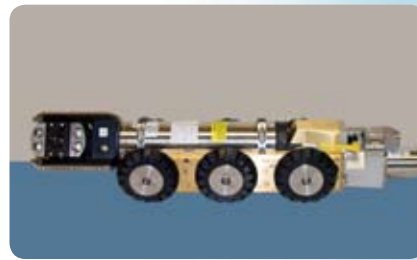
Multi and Single Conductor III Wheeled Transporters

The Pipe Ranger is a rugged and versatile low-maintenance transporter that's specially designed to traverse silt, mud and debris commonly found in storm and sanitary sewers. Three standard wheel sizes and optional manual or electric camera lifts are available to maximize performance. Optional high traction tires are available for extreme slippery conditions.

The unit is designed to operate with 2000' of single-conductor cable or 1500' of multi-conductor cable to inspect 8" relined pipe through 60" diameter pipe. Its unique two (2) speed transmission doubles the torque of the unit to produce maximum pulling power in large diameter pipe when the 10.5" diameter tires are installed.

When assembled with a pan-and-tilt camera, the reduced length of the transporter / camera assembly can negotiate most difficult entry conditions and standard sweeps. The Pipe Ranger combined with the CUES OZ II optical zoom camera offers you one of the most compact assemblies in the industry. Optional steerable units with remote or manual camera lifts are also available.

Operates with multi & single conductor systems!



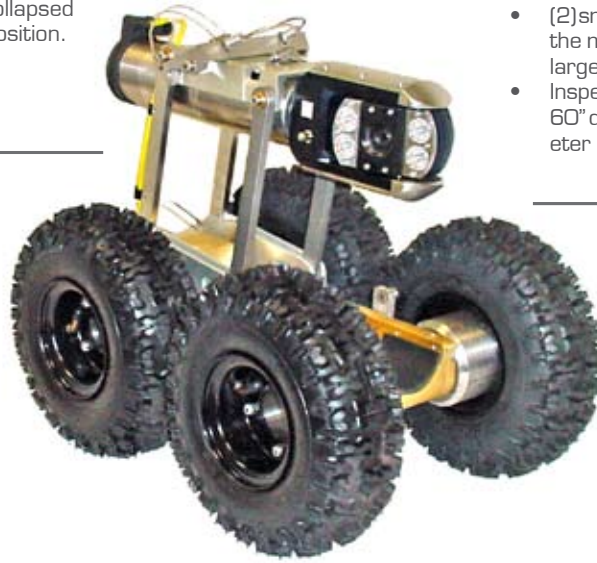
Features & Benefits:

- Operates with CUES multi or single conductor systems
- Can operate on all truck-mounted and portable systems
- Operates with all CUES cameras: pan-and-tilt and optical zoom
- Designed to traverse storm drains and pipe with debris and silt
- Freewheel, powered reverse, forward variable speed control
- Rugged, durable and sealed to eliminate water intrusion
- Designed to provide clearance in a 7" diameter pipe; can inspect 8" relined pipe
- All-wheel drive is enclosed and sealed; all brass and stainless steel construction
- Two-speed transmission doubles the torque and maximizes traction in larger diameter pipe or in tough conditions
- Three wheel sets (3.7", 5.0", and 10.5" diameter) for small, intermediate, and large diameter pipes; optional high-traction wheels for slippery pipe
- Rear tip-up bulkhead connector minimizes strain on the cable connection during the inspection and retrieval
- Compact camera/transporter length with optical zoom pan & tilt camera (OZ II) facilitates entry into small inverts, small manholes, dead end lines, and traversal of sweeps
- Optional full proportional steering control to traverse meandering pipe with 45° and 90° turns; minimizes transporter turnover in small diameter pipe
- Inspection speed can be optimized to match pipe conditions and pipe size in 8" through 60" pipe



Camera Lift (optional)

- An optional manual or electric camera lift is provided for pipeline inspections ranging from 18" – 60" in diameter to prevent the need for an operator to enter the manhole during inspection and retrieval.
- Camera height varies from the collapsed position to 10.5" in the extended position.



Tires

- (6) wheels are available in various sizes to maximize traction in each pipe size
- (2) smaller diameter wheels remain affixed to the middle axle to help negotiate offsets in larger pipe configurations
- Inspections can be performed in pipes up to 60" diameter with the addition of large diameter wheels

Transporter

- Base unit includes (6) driven wheels for 8"-15" pipe; (4) driven wheels via multiple sets for 18"- 60" pipe
- Operates on 1500+ feet of multi-conductor video cable in suitable pipe conditions
- Includes a *two-speed* transmission to optimize traction by doubling the torque in difficult pipe conditions or in larger diameter pipe
- Comes equipped with self-propelled power forward, power reverse, and free wheel capabilities
- Constructed of brass, stainless steel, and aluminum alloy
- Unit is retrieved in the free wheel mode by the video cable reel to reduce the normal wear on the drive motor by 50%
- Compatible with pan and tilt, fixed view, straight line, and optical zoom pan and tilt cameras

OPTIONAL EQUIPMENT



Rear-viewing Camera

- Optional full-proportional steering to traverse curved pipe, turn at 90 degree elbows within larger pipeline, turns at tees within larger pipeline, and conduct a complete 360 degree turn within its own radius
- Panel-mounted or stand-alone controller
- Manual or adjustable camera lift to optically center the camera in larger pipe
- Chevron tread or knobby tread for large diameter tires
- Rear-viewing camera to avoid obstacles when pulling back or driving in reverse (for use only with the multi-conductor version and must be used in conjunction with the manual or power lift assemblies)
- Lite Ranger (Pipe Ranger with an aluminum body) for customers that require a light-weight transporter
- High-traction tires for slippery pipe



Multiple wheel sets are available to maximize bottom-clearance, traction, and optimum camera position!