

The **Investigator+™** is a next generation condition assessment technology for in-service water distribution mains ranging in size from 100 to 300 mm (4 to 12-in). Larger pipe diameters can be inspected based on project review. The technology operates in pressurized water mains and efficiently provides visual and leak detection assessments through a single, advanced tethered sensor. Unlike any other commercially available technology, the Investigator+™ can be launched through fire hydrants, pressure fittings, or removed air valves while the main remains in service. The Investigator+™ is capable of travelling in either direction from the insertion point - with or against the flow of water.



Investigator+™ Platform

- High Definition Camera System
- Hydrophone Technology
- High Powered Sonde
- Pressurized Launch Station
- Manual Chlorination and Disinfection System

Applications:

- Leak detection
- Tuberculation assessment
- Identification of structural defects
- Lining quality assessment
- Pre-lining condition assessment
- Valve assessment and locating
- Hydrostatic pressure testing
- Water quality investigation
- Pipeline mapping



Operation:

The Investigator+™ has a small footprint and is operated from a standard utility vehicle which minimizes the impact of inspection on traffic and local residents - No Customer Interruptions!

The system is manually or automatically fed and retracted using a drive mechanism within the watermain. This increases control and position of the sensor. The built in disinfection

functionality ensures the protection of potable water supplies. The Investigator+™ technology is robust, allowing reliable results to be achieved within harsh environments.

The hydrophone is operated in parallel with the camera system, offering visual and acoustic data all from one operation, greatly increasing inspection efficiency. The sensitivity on the hydrophone technology is very high due to a variety of advanced filtering and frequency options. This results in accurate locating and marking of small and large leaks.

Investigator+™ Advantages:

- Pipelines remain in-service during video/leak inspection
- Ability to access distribution mains via fire hydrants
- Single pass video/leak assessment decreases total inspection time
- No need for post processing of video file
- Sensor can travel with or against the flow of water
- Built-in disinfection system ensures potable water safety
- Tethered system minimizes risk of lost sensors

Inspection data can include:

- Assessment of tuberculation inside of pipe
- Location of any leaks located inside the pipeline
- Assessment of the interior lining and liners
- Location and assessment of accessories

The Investigator+™ is a critical tool to help ensure the operability and efficiency of water distribution networks.

Information gained from water main assessments can be interpreted and mapped by experienced GAME Trenchless Consultants experts.