



JD7 Investigator Gas™



Benefits

- Interchangeable hi-resolution CCTV system
- Gas Pressurized insertion and seal technology
- Ultra sensitive acoustic sensor for precise leak detection
- Sonde for above ground location
- Ruggedized control station
- Real-time analysis and evaluation software
- Extremely robust



Description

Piloted in Northern Gas Networks (UK), in 2013 JD7 commercially launched its live gas insertion system capable of 100m travel. This technology incorporates not only high resolution CCTV camera sensors but also a highly sensitive acoustic sensor coupled with a sonde. The acoustic sensor is used for precise leak detection pinpointing in all materials and pressures. The system comes with JD7 software for live viewing and recording throughout surveys. This is the first product in the World to use such acoustic sensors and the results speak for themselves.

The system can be used in pipes 75mm (3in.) and greater and comes with a pressure seal assembly which is extremely robust and easily attached to standard fittings, valves etc.

A 512hz high powered sonde is built into the system which is capable of penetration through metallic pipes. JD7 Gas software has been written specifically for the gas industry which allows not only real time video monitoring and recording, but also shows a detailed range of acoustic graphs to display leakage information. Various filters can be applied and the control station allows for headphones to be used to verify acoustic signatures.

The system is very powerful and extremely simple to use. Piloted by Northern Gas Networks and Balfour Beatty Utilities in the UK has ensured the system captures all industry requirements. The patented robust design of the camera head means minimal down time due to camera failures.

The system is compatible with JD7LiveFeed software for maximum performance

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Winner of the Pipeline Industry
Guild's - Utility Pipeline
Technology Award

Specifications

- Two options for camera head sizes (22mm dia. and 37mm dia.)
37mm comes as standard
- Sensor head stainless steel with quick release connectors
- Sensor head wide angle optic, fix focus (PAL system) with illumination 3 Lux at F1.2
- Sensor head high powered 512Hz sonde
- Pressurized seal and launch arrangement
- Cable is 100m with PTFE outer protective sheath (flexi and rigid options available)
- Cable drum assembly approx. 800x750x350mm with slip ring and encoder (1% accuracy)
- Acoustic sensor – multi frequency and changeable dB
- Operating Temperature: -5 to +40°C
- Control box with Panasonic Toughbook and 12v internal power supply
- JD7Gas software with video and acoustic analysis software



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