



JD7 LDS1000™ 1000m CCTV Acoustic system



Benefits

- Tri sensor head (hydrophone, camera and sonde)
- HD camera sensor
- Proven unmatched hydrophone sensitivity
- Electronic cable drum (silent running)
- Simple to install, configure and operate
- Minimum flow of 0.3m/s required
- Pipelines 12in. and above diameter
- Video and acoustic capturing software for simple reporting
- Light weight heavy duty control cable for increased reliability and durability

Description

The LDS1000 is a long distance trunk main live CCTV inspection and leak detection platform designed for internal investigation and leak detection work in live pipelines. The system utilises a tri-sensor head incorporating industry leading high resolution digital camera, focussed light system along with an internal hydrophone and sonde for mapping and leak detection. The system is designed to be inserted through Air Valves, tappings or pressure fittings with an internal diameter of 2in. upwards. The system uses the flow within the pipe as the driver and a selection of parachute sizes are selected based upon flow rates which sit behind the camera head to ensure maximum visibility throughout surveys. The LDS1000 is capable of insertion into pressurized pipework up to 16 bar and is reliably launched within 12in. (300mm) diameter and above pipework with a flow rate as low as 0.3m/s. The LDS1000 comes complete as a full package with training and all items required to implement the technology into any business. The system will not be matched with regards to both reliability and performance and has been proven in most territories around the World. The system is compatible with JD7LiveFeed software for maximum performance.

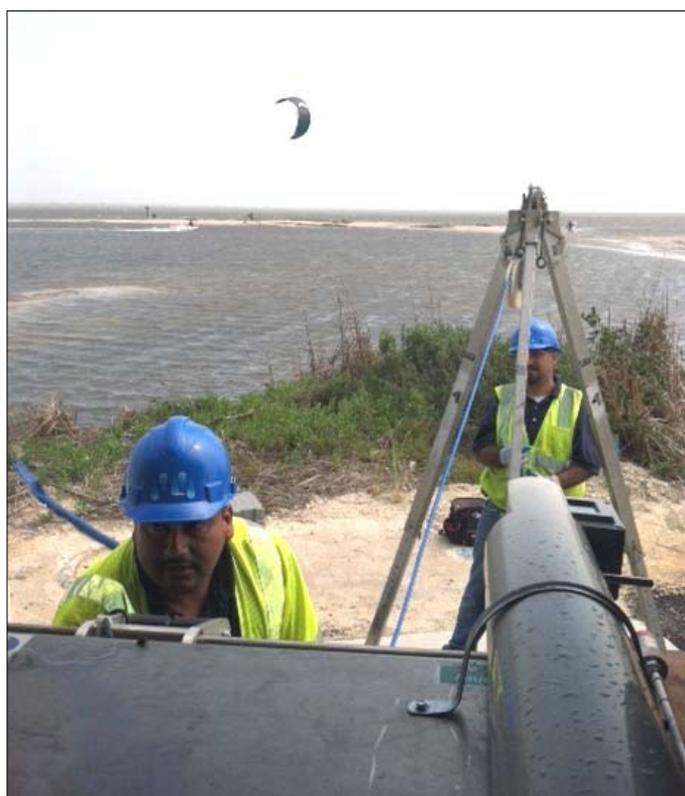
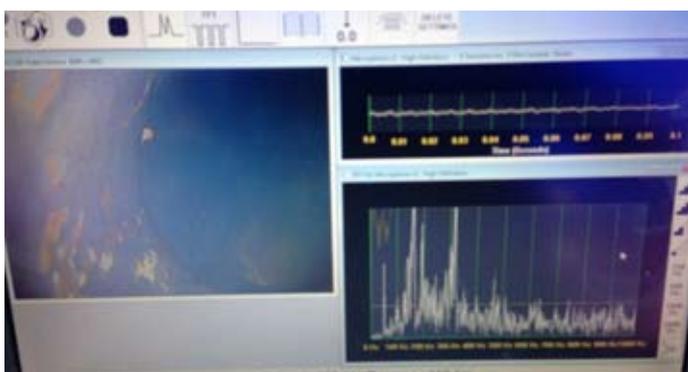
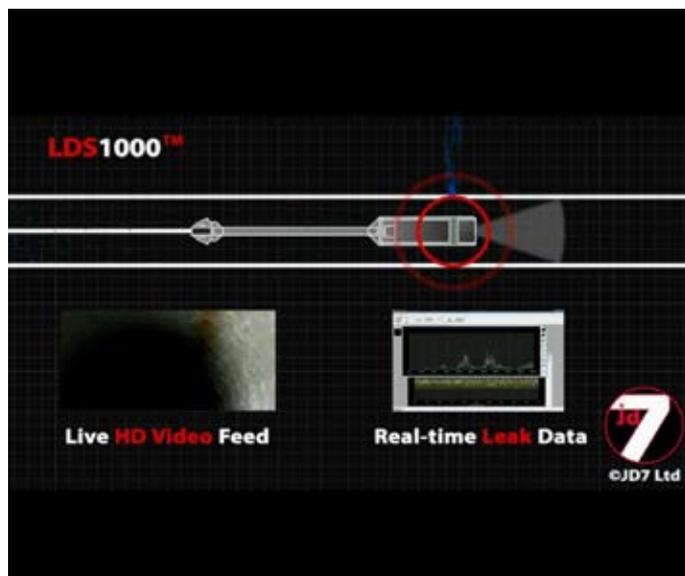


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Winner of the Pipeline Industry
Guild's - Utility Pipeline
Technology Award

Specifications

- 37mm diameter robust and hardened tri sensor head with HD CCTV, hydrophone and 512Hz sonde
- Sensor head ruggedized quick release connectors (pressurized capability to 16bar)
- Sensor head wide angle optic, fix focus (PAL system) with Illumination 3 Lux at F1.2
- Electronic push/pull drive system with drive control
- Seal assembly with stainless steel patented inserts
- 1000m electronic cable drum with 24v drive control and self-reversing lead screw
- 1000m neutrally buoyant cable with heavy duty protective coating and Kevlar strain relief
- Cable roller mechanism with chlorination system
- Full chlorination pump and hosing
- Stainless steel launch mechanism assembly with extension sections and patented roller mechanism
- Winch and collapsible tripod assembly with puller guide roller
- Aluminium adjustable support legs for supporting launch assembly
- 150mm to 600mm diameter parachutes
- Patented rotating swivel assembly for parachute attachment
- Power distribution box with 12v and 24v dc outputs, housing 2 12v lead acid batteries
- Hydrophone resonant frequency: 240 kHz (Nominal)
- Hydrophone beam pattern circumferential: omni \pm 2 dB up to 100 kHz Beam Pattern Horizontal: Omni \pm 4 dB up to 100 kHz
- Operating Temperature: -5 to +40°C
- Control box with Panasonic Toughbook
- JD7LDS1000 software with video and acoustic analysis software



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