

# Camera Inspection

REALTIME HIGH DEFINITION VISUAL INSPECTION OF PIPELINE AND PROCESSING PLANT

## OVERVIEW

Inspecting the internal surfaces of pipelines and process plants normally requires full decontamination before containment can be broken, which increases time and cost of maintenance activities. Using cameras for initial inspection can optimize work scope planning reducing or

removing the need for mechanical intervention. Cameras can be navigated around bends, at significant extended distances, and with multiple camera heads provide a 360° view of internal surfaces.

### APPLICATIONS

- Heat Exchanger tubing and shell inspection
- Small vessel and tank inspection
- Pipework and duct inspection
- Flexible and rigid riser inspection
- Caisson, cavity and machinery inspection

### FEATURES

- Can be used in both hazardous and non-hazardous areas
- Suitable for use in live process plants
- Digital recording for immediate playback
- Annotation and voiceover of video and still footage
- Files compatible with Halliburton Integrity Management Software

### BENEFITS

- Minimal mechanical preparation
- Provides proof of cleanliness before start-up operations
- Details severity and location, enhancing repair preparations and works
- Real time monitoring and evaluation of cleaning and remediation



### **Push Rod Cameras**

These cameras are mounted on a 'stiff fiber rod'. The rod is flexible enough to be stored on a reel and then uncoiled and deployed into the pipeline; but stiff enough to enable it to be pushed significant distances down a pipeline. The camera systems have a rod counter so that we know exactly where the camera is and the distance travelled. The cameras also provide direct viewing of the internal surfaces and easy digital recording for later playback and record keeping.

The 'camera heads' are waterproof, so they can be used in systems containing liquids.



### **Endoscope Cameras**

There are situations where the entry point or item to be inspected is small diameter; Halliburton has cameras that suit these applications. The cameras can be either forward facing or radial camera heads. This type of camera also has articulation functionality that allows us to carry out localized inspections of larger pipelines through small bore instrument connections and view both upstream and downstream.



### **Hal-Vision Camera**

This is a camera inspection system developed to inspect the internal surfaces of flexible risers.

The camera head is fitted with sealing discs and can be pushed down the riser or pipeline with fluid pressure (much like a cleaning or inspection pig). The unit is fitted with a high definition camera that can be remotely controlled via the fiber optic cabling. Distances of around 3km can be inspected from a single entry point.

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