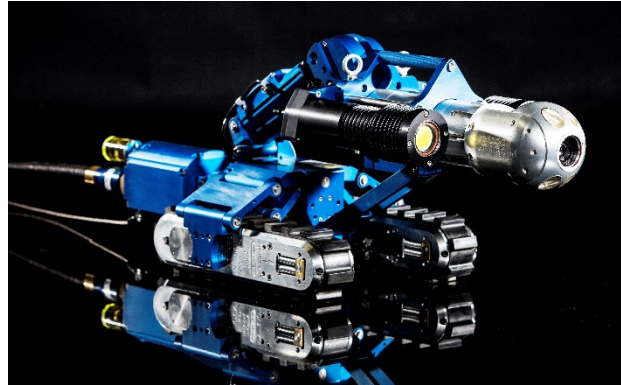


The **VT150MkII** ROV inspection system, submerged or dry, can operate in pipe diameters from 500mm / 20in and greater with a fully mechanized chassis capable of remotely adjusting its configuration in a matter of seconds. Modular design, precise controls and ease of operation deliver power and reliability that can be tailored to meet the specific needs of the inspection requirements.



The system integrates a number of core technologies including two CCTV cameras, full lighting rig and independently controlled tracks. The customizable chassis and auxiliary systems port allows for the interchanging of various sensor components based on the client's requirements. Designed for a maximum operating depth of 300 m of water (427 psi), the ROV can confidently operate in almost any environment.

Key benefits of the technology include the ability to launch the system through inspection hatches, drain valves or removed flanges which have a minimum of 300 mm (12-inches) of clearances. Utilising such network components drastically reduces implementation costs and eliminates excavation requirements which have been a huge drive for the technology. The system is also fully decontaminated with 1000 ppm chlorine solution before every use, thus protecting the water quality.

VT150MkII Primary Platform

- SP120HD™ Camera System with built in LED lighting and laser line gauge
- Rear facing Crystal Cam® camera with wide-angle lens
- Aluminum Chassis with motorized Camera Raise assembly
- Onboard main lighting
- 2 brass Minitracs™ crawler units in parallel configuration
- 1200 m (3940 ft) Copper/Fiber Tether Cable with Auto-level winding

VT150MkII Auxiliary Platform

- 3D Surface Laser Profiling
- Device Locating Sonde
- Multi-Axis Gyroscopic navigation data logging

Applications:

- Tuberculation assessment
- Identification of structural defects
- Lining quality assessment
- Pre-lining condition assessment
- Valve assessment and locating
- Water quality investigation
- Pipeline mapping

Operation:

The **VT150MkII** has a small footprint and is operated from the back of a standard utility vehicle which minimizes the impact of inspection on traffic and local residents.



The system uses a mechanism cable drum to feed and retract the device within the water main. This ensures a consistent feed rate and increases control and position of the device. The ROV is constructed using high quality materials and food safe lubricants to ensure the protection of potable water supplies. In addition, a full decontamination is performed prior to and after operation. The **VT150MkII** is robust, allowing reliable results to be achieved within harsh environments.

The auxiliary systems are operated in parallel with the camera system, offering visual and all other data to be collected from one operation, greatly increasing inspection efficiency.

VT150MkII Advantages:

- Reduced costs due to entry points;
- High Definition quality video;
- High resolution auxiliary components;
- Complete data collection means client can choose what information gets displayed
- Tethered system minimizes risk of lost sensors

The VT150MkII is a critical tool to help ensure the operability and efficiency of water transmission networks.

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