



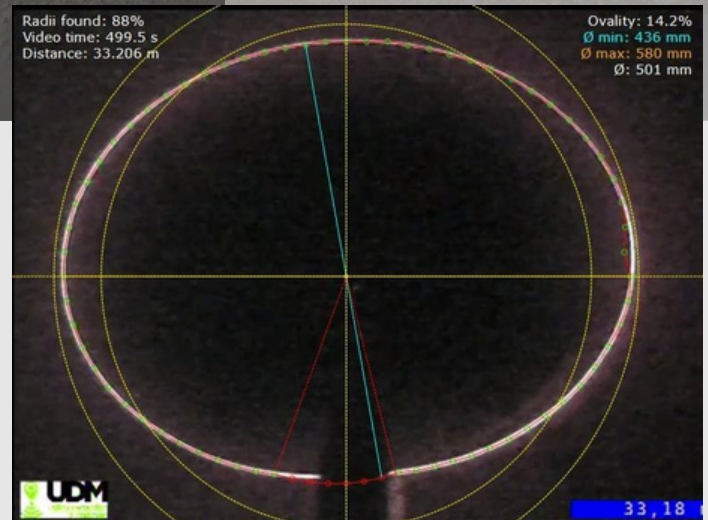
**UDM**  
Utility Detection  
& Mapping

# LASER SHAPE SCANNER

## IPEK LASER SHAPE SCANNER

The first and only system of its kind in Tasmania, the IPEK Laser Shape Scanner is used to acquire, view and store geometric data from non-submerged portions of a pipe. This module works with our crawler camera's laser scanning probe to gather ovality measurements and generate a 3D pipe profile.

Ovality measurements can identify potential risks to a pipe's integrity, making them a vital part of sewer inspection and maintenance. With a laser profiler and WinCan on hand, wastewater teams can easily gather information about a pipe's diameter as part of a routine inspection. Inspection teams simply need to gather media, calibrate the Laser Scan module in WinCan and record the data.



ACTUAL DATA FROM A PIPE

### What is Ovality, and why does it matter?

WinCan Laser Scan 3D Pipe ovality is the amount a pipe wall has shifted from its original, round shape. Most commonly pipes begin to oval from the pressure of the load surrounding them, but they can also oval during installation. Preventative ovality inspections are the first line of defence against collapse, and it's common to take ovality measurements shortly after installing a new pipe section to set the baseline for that section and allow for early intervention and rehabilitation.

If there is no intervention, severely oval pipes may cave in and corrode, eventually requiring a full excavation and replacement. To ensure this doesn't happen, wastewater inspection teams can measure ovality as part of their routine inspections, and WinCan Laser Scan makes it easy to collect and analyse data for more informed decision making.

