

CCTV Drainage Survey Methodology

Inspection Standards

This survey was conducted in accordance with EN 13508-2 and WRc's Manual of Sewer Condition Classification (MSCC) standards, using industry-approved equipment and procedures.

Survey Procedure

Pre-Inspection

- Comprehensive high-pressure water jetting (120-150 bar) to remove debris and ensure clear visibility (where required or requested)
- Equipment calibration and distance counter zeroing at start reference point
- Site safety assessment including confined space procedures and gas monitoring

CCTV Inspection

- Pan/tilt/zoom or coiuler camera system with minimum 1000 lumen lighting
- Maximum traverse speed of 0.2 m/s for detailed observation
- 360° rotation at regular intervals and detailed inspection of all visible defects
- Digital recording at minimum 720p resolution with real-time monitoring

Data Recording

- Standardized defect coding using EN 13508-2 classification system
- Clock position references (12 o'clock = top of pipe)
- Precise distance measurements from start point ($\pm 0.5\%$ accuracy)
- High-resolution still images captured for all significant observations
- Severity grading scale 1-5 (1=minimal, 5=critical requiring immediate action)

Quality Assurance

- 100% inspection coverage of accessible pipeline sections
- Re-inspection of areas with initial poor visibility
- Cross-verification of observations against video timestamps

