

# **Danske TV-inspektionsfirmaers Kontrolordning – DTVK**

## **English Summary**

### **Control Scheme for Danish Drain Inspection Companies**

Established in 1986, the CCTV Control Scheme for Danish Drain Inspection Companies (DTVK), is a voluntary control scheme for drain inspection companies.

The scheme was established to ensure that the affiliated companies carry out high-quality video inspections of drainage systems and use the latest technological equipment.

The control scheme was designed to ensure that customers can rely on the CCTV inspection reports they order. The CCTV inspection requirements are set out in the 'Inspection Manual', 'Special conditions for CCTV inspections' and DTVK's Technical Regulations (in Danish).

The Inspection Manual (Inspection Manual – CCTV drain inspection, Guideline no. 57 2010) is the Danish standard for reporting observations/damage identified using CCTV equipment. The manual is published by DANVA and continuously revised to comply with European standardisation requirements.

DTVK's Technical Regulations set out the conditions for video-recording, minimum equipment standards, performance reporting requirements, camera operator certification, training, customer enquiries, etc.

#### **Requirements for affiliated companies**

The affiliated companies must meet a number of requirements, including for:

- The company's equipment
- Trained/certified operators
- Customer reports
- Quality assurance of own work
- Performance reporting

The affiliated companies must also be able to deliver digital reports that can be stored in the databases of local authorities and utility companies.

#### **Classification of camera operators**

Operators in the control scheme are classified according to the following three control levels:

- Reduced
- Normal
- Strict

In the first year, newly qualified camera operators are classified in the 'strict' control group.

Camera operators advance to the next level of control on the basis of the results of random samples checked by technical consultants. The number of samples varies between 3% and 27% depending on the operator's control level and number of inspected pipeline lengths.

Samples are required from operators in the 'reduced' and 'normal' control groups every three months, while operators in the 'strict' control group are subject to control every 1½ months.

The control level classification is an internal tool used by DTVK to assess individual camera operators and is thus not disclosed to third parties.

### **Control Committee**

The Control Committee, which has overall responsibility for the functioning of the scheme, consists of customer representatives, advisors, insurance company representatives and representatives of the affiliated drain inspection companies.

The day-to-day work is handled by two technical consultants with in-depth industry expertise:

Their work includes:

- Controlling the companies' production by taking random samples for control
- Training operators for certification and supplementary training
- Responding to technical enquiries regarding the control scheme and its activities, etc.

If the control reveals serious faults, the drain inspection company is required to inform the customer.

All customers who have a CCTV inspection carried out by a member company of DTVK are entitled to submit quality-related questions to DTVK.

### **Control mark**

The control mark is a registered mark and may only be used by affiliated companies, whose reports and other documents must always display the control mark.



### **How much CCTV inspection is carried out?**

The control scheme receives reports from all the affiliated companies, which provides a basis for calculating how many pipeline kilometres are inspected by members of the scheme.

In 2010 certified camera operators inspected a total of 146,000 pipeline lengths, or 3,400 km. Of these pipeline lengths, 12,000 were called in for random inspection, which is equivalent to 8% of the work performed.

### **Advantages of using DTVK member companies:**

The control scheme was established to assure customers of the quality of the inspection. Using drain inspection companies affiliated with DTVK offers the following advantages:

- DTVK is a well-established control scheme

- The member companies are well organised
- Minimum equipment requirements
- CCTV inspection carried out exclusively by certified camera operators
- Ongoing supplementary training of camera operators
- Ongoing control of the companies' video footage production
- Annually renewed certificates
- Customers informed of all serious faults identified
- Possibility to submit enquiries about quality
- Possibility to complain about poor quality

The Articles of the Control Committee and the Technical Regulations are available (in Danish) from the DTVK secretariat or can be downloaded from DTVK's website: [www.dtvk.dk](http://www.dtvk.dk).