

THE INTELLIGENT MANHOLE SCANNING SYSTEM

Intelligent means, that the camera head hosts a processor with a fully loaded operating system that can analyse and preprocess a massive volume of high quality image and sensor data. CleverScan is the result of several years of joint research & development of two companies: The company KEPSO (owned by Peter Kessler) developed the hardware and electronics, the company CD Lab AG (Software WinCan) is responsible for the software of CleverScan.

Maximise mobility, simplicity and speed of the manhole inspection and still maintain the best image quality available was the product vision for CleverScan. All these advantages are available for a very reasonable prize.

Often manholes are not located directly at an easily accessible location. This makes it impossible to inspect these manholes with a camera that requires a big inspection truck. CleverScan is extremely mobile because its weight is only approx. 16 kilos /38 lbs and its height is only approx. 1.10m /3' 7" so it can be stored in

a car (e.g. VW Caddy) and carried by one person. The camera system is simple and fast to use because the software is perfectly integrated with the hardware. Just push a button and the camera is doing everything automatically for you. Wait a small moment until the scan is done and you're off to the next manhole. The image quality is one of the best of the industry with 5 HD camera systems producing a HD video, a 3-dimensional view of the manhole and an unfolded view where you can see all the details of the manhole surface.



PRODUCT BENEFITS / FUNCTIONS

Hardware

- > portable manhole inspection system (approx. 16 kilos / 38 lbs weight and approx. 110 cm / 3' 7" height)
- > 5 HD cameras (4 side & 1 front)
- > Laser for geometry measurement
- > powered with a battery (lasting for approx. 1 working day in full inspection mode)
- > cable drum with 10 meters cable directly integrated into the portable camera system
- > adjustable positioning device for quick setup of the device on the manhole
- > core processing unit in the camera head is equipped with Linux embedded operating system for flexible preprocessing of the data
- > very fast automatec inspection process, minimal user interaction needed

Software (included)

- > Full integration with the WinCan reporting software package
- > All manhole inspection standards available world-wide
- > Full integration into ESRI GIS systems
- > 3 dimensional view of the manhole
- > HD Front Video
- > HD unfolded view of the manhole surface

DATA SHEET



Inspection range

for manholes with a depth of approx. 10 m and diameter up to approx. 2 m



Weight

approx. 16 kilos / 38 lbs



Speed

complete inspection and reporting of an average manhole in approx. 5 minutes



Protection Class

*camera head: IP67
control unit: IP54*

RESELLER

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