



KS 135 Scan-SI



Manhole inspection with the main camera KS135 in accordance to EN13508-2. Camera guidance via a telescopic rod from the cable drum ELKA 600.



Quick-Lock

Pneumatic packer system for the installation of V4A-stainless steel sleeves from 150 – 800 mm.
Mechanical system to install the internal sleeve without the use of any chemicals. For positioning, the packer is connected to the camera and crawler.



V4A-stainless steel sleeve with EPDM rubber
The patented Quick-Lock mechanism allows the secure compression of the duroplastic seal.

ECO-Star 400



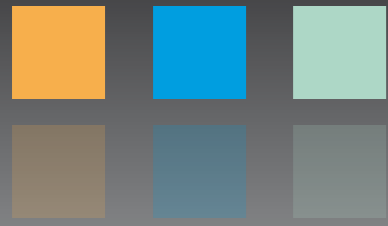
Smart/PipeCommander

Data acquisition software for professional documentation of sewer pipe and manhole inspections inclusive recording of digital videos in MPEG 1/2/4 formats and picture digitising in JPEG-format. Extended functionality by additional modules like inclination, temperature, deformation measurement and measurement of defects. 3D-Mapping of pipes and branched laterals with manholes. Export interfaces in most frequent formats, configurable report generator to produce inspection reports i.e in pdf format.

Optional:

ECO Star 400 / PipeCommander: deformation, temperature, inclination measurements and measurement of defects

ECO Star 400 / SmartCommander: Inclination measurement



rausch



ECO-STAR 400

Van version with up to 400 m cable length



Multi function control unit for the inspection of main lines starting from 100 mm expandable to a Satellite system, the M-series, to inspect mainlines and laterals starting from 135 mm

- Operation of steerable crawlers from 100 – 2000 mm
- Cable length up to 400 m in conjunction with cable drum ELKA 600
- Radio remote control for all CCTV functions
- Control unit with LCD-Monitor, Joysticks for crawler and camera control

- Operator controls with dirt resistant foil keyboard
- LCD-Display for status and control displays, macro controls
- Internal pressure monitoring of cameras and crawlers
- Power supply via generator or maintenance free gel batteries
- Optional EX-approval according to European standard RL 94/9/EG

SATELLITE SYSTEM M 135

Application with special wheels from 135 mm, inspection with electrical lift already from 150 mm

- Module SKM 135 with roller drive to advance the push cable and the lateral camera KS60 CL
- Observation colour camera ZKM 135
- Module PM 135 with power-LED lighting for the exact positioning of the lateral camera

M-SERIES JETTING SYSTEM

Extension for the satellite system to allow cleaning of laterals from the main line, application from 150 mm, to be connected to a high pressure unit.



ECO-STAR 400 / 400 pro Mobile Systems



Mobile deployment of the ECO-Star 400 system from 100 – 2000 mm

- Manual or electrical operated cable drum up to 300m cable length
- Control unit with embedded PC and software SmartCommander as ECO-Star 400 pro version
- Inclination measurement

L 100 Cross with KS 60 CL

Steerable camera crawler from 100 – 500 mm,

- Cable free quick connectors to fix the camera KS 60 CL (90° foldable)
- Mechanical height adjustment of the camera
- 3-Axis driven up to 150 mm
- Pluggable power-LED as additional lighting
- Optional EX-approval according to European standard RL 94/9/EG
- Optional location transmitter



L 135 with KS 135 SCAN

- Steerable crawler with electrical lift from 150 mm
- Pan and tilt camera with automatic up-right picture adjustment & power-LEDs
- 10x optical zoom, 12x digital zoom
- Application 135 - 2000 mm with additional wheel sets and lighting

Optional:

- Deformation measurement with integrated laser system
- Measurements of defects, temperature and inclination measurement
- Location transmitter

