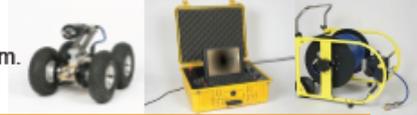


CSI : Southern Ltd

S3000 is a crawler based Pan and Tilt CCTV pipeline inspection system, suitable for surveying pipe diameters from 150mm up to and including 1000mm. Standard cable range is 200m or a 150m / 250m option is also available.



Camera Specifications:

Construction: Stainless Steel 303 grade and Aluminium HE30 anodised with waterproof rear connector.

Imaging: High quality, CMOS, system on chip (SOC) image sensor, 720 x 576 active pixels >420 TV lines PAL tv system.

Sensitivity: 0.5 lux.

L.E.D: High power, 5th Generation L.E.D lighting. Protected with domed lens for even light distribution. 2x500 lumens intensity @600mA. Additional lighting is not necessary to 1m diameter.

Dimensions: Diameter 75mm, Length 180mm weight 1.2Kg.

Crawler Specifications:

Construction: Brass CZ121 grade body, with Stainless Steel 303 grade fittings and housings for cable and Camera attachment. Quad sealed axles.

Motor: 48 Volt DC Motor with planetary gearbox, providing 15Nm output torque.

Drive: 4 wheel drive, with chain transmission to rear axle.

Dimensions: Length 445mm, Width (6"Config) 108mm.

Electrical: 19 Pin Amphenol type connector at front and rear for cable and camera connection. Fischer Environmental Connectors for top mounting extension lead.

Accessories: Adjustable gantry to enable top mounting camera for large diameter surveys.

Wheels: 137mm diameter wheel set for 225mm diameter and above.
206mm diameter wheel set for 300mm diameter and above.

Optional Pnuematic wheel set for 800mm and 1m diameter.

Wheel Spacer Set 60mm long to enable various configurations.

Inclinometer: Module sends data to OSD for display of pipe gradient (optional component)

Control Unit Specifications:

Construction: All electronics and control systems are housed inside a durable and portable PELI type case. weight 13kg.

Features:-

A 6 page text OSD, to display general info counter info and inclinometer info. Also provides data to a PC running WinCan software.

10.4" TFT monitor at 800x600 resolution. Set in a flip up housing and an optically clear acrylic perspex window.

Controls: A custom designed control panel and keyboard. Silicon rubber design with epoxy coated and coloured control pads for Camera, Crawler and DVR operation. A 78 key qwerty keyboard. Digital step speed and light power

DVR: The integral Digital Video Recorder captures and encodes the incoming video to mpeg2 codec and can save the files to a USB memory stick, which can be easily connected to the unit on the main control panel.

Electrical: Auto sensing 110v or 240v mains or 1KVA generator power inlet.

Cable and Drum Specifications:

Construction: Multicore, Kevlar reinforced cable with 75ohm coax. A polyurethane 4350 flame retardant, halogen free jacket and kevlar braid for strain relief.

Stainless Steel Wet cable end with internal strain relief.

Connector: 19 Pin Amphenol type with o-ring sealing and stainless steel locking ring.

Diameter: 9.6mm

Length: 200m standard, 250m option.

Minimum Bend Radius: 150mm.

Cable Drum Construction: Mild Steel powder coated tubular construction, with aluminium bobbin and counter mechanics. A cast iron winding handle and stainless steel adjustable transport handle.

Encoder: For distance measurement display.

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