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Complete Pipeline Survey Solutions

Now with DigiCAN Software



Manufactured in the Czech Republic | Fully Supported in the UK by DCR Inspection Systems

**"the Revi 550 tractor
is the easiest to
deploy in the
industry"**



Power Ahead with the Revi 550 Tractor

Distance is No Object

Included are three sets of wheels together with a set of spacers and an adjustable gantry to provide a spectrum of different heights and axle widths to suit the tractor for a range of pipe diameters. Durable moulded-on rubber tyres with a silt-cutting rubber stud pattern are fitted to the two smaller sizes. The largest are pneumatic. The gearing ratio provides approximately the Water Industry Model Contract recommended survey speeds for 150mm, 300mm, and 450mm pipes when the small, medium and large wheel sets respectively are fitted. Careful wheel selection combined with a powerful motor ensure that the full 200 metres of cable is available for use.

Pan and Rotate

The camera head can be panned to $\pm 120^\circ$. Rotation is continuous through 360° and the rate of both axes is controllable.

Camera

The high-sensitivity Sony HAD CCD sensor and lensing used deliver a stunningly detailed picture across the full range of the 10 x optical zoom. There are both manual and automatic modes for focus, aperture and white balance.

Lighting

An adjustable cluster of four powerful Lumiled LED's are fitted to the pan and rotate head to provide lighting for smaller diameter pipes. An independently controlled demountable twin 20 Watt halogen light head is supplied as standard.

Locating

An "always on" 33KHz sonde is fitted to the tractor body.

Protecting Against Costly Repairs

An on-board gauge communicates continuously with a low-pressure warning system in the base unit to permit the operator to maintain positive pressure thus ensuring contaminants cannot enter the tractor.

Safe Working

A unique hook arrangement is fitted in the centre of the tractor body which allows a lifting stirrup (supplied) to be securely and easily located from a distance to permit deployment and recovery without the the need for man entry in most circumstances.



Cable Drum

Functional and Efficient

200 metres of small diameter, low friction, aramid fibre reinforced cable is supplied on the drum. The drum has a powerful motorised rewind mechanism. A traversing guide roller assembly lays the cable evenly across the width of the drum to provide a labour saving, quick and neat cable feed and storage solution. The cable can be rewound independently of the tractor if required.

Preventing Problems by Design

A clutch is released when forward drive is engaged on the crawler. This feature prevents spillage from the reel when the tractor is stopped quickly. A manual friction brake is fitted to allow the cable to be locked when the drum is being transported, again to prevent spillage. A manual rewind crank is supplied to cater for power outage. An emergency stop switch is fitted.

Measurement

The traversing guide roller assembly is fitted with an encoder which feeds cable payout data to the base unit. This achieves less than 1% error.



Optional Items

Inclinometers

A tractor fitted with inclinometers communicates with DigiCAN which displays the attitude of the tractor, both fore-aft and side-side. The latter is used to trigger a graphical warning that the tractor is in danger of toppling. All information can be overlaid onto the survey image and recorded as part of the report.

Smart Control of Pan and Rotate for Those "Where Am I?" Moments

A modified head can be fitted which allows the pan and rotate to perform additional functions under software control:

- On-screen indication of camera head orientation with an easy-to-read graphic clock display
- Auto-return to forward view on demand
- Automatic scan routines for easy, smooth and accurate inspection of pipe joints.



Stay in Control with the Revi 550 Base Unit

Precision with Ease

The core functions are controlled by a pair of joysticks; the tractor drive by the left hand and pan, rotate, zoom, and focus by the right. The drive can be locked at any desired "cruising" speed by a thumb switch. The cable rewind motor and clutch are controlled semi-automatically by the action of the main drive. Joystick control of the main motor permits the drive to creep almost infinitely slowly in either forward or reverse and to arrive easily and exactly at any point of interest without having to juggle with separate speed, stop or direction controls.

A Computer System Made for the Job

At the heart of the system is the DigiCAN Light software running on a Windows PC. This produces MPEG recordings on a variety of media to suit the end user's requirements. All the familiar PC file management facilities are available at the click of a mouse. USB connectivity for external hard drives, memory card adaptors, printers or other devices and the on-board DVD burner make data distribution and backup easy.

DigiCAN Light is used to generate on-screen text and graphics. A water resistant QWERTY keyboard built-in to the control desk allows text to be generated and overlaid on the picture either directly or from an almost limitless library of stored pages and lines of text.

DigiCAN Light displays distance and other data on the picture in any region of the screen required. The software allows for pause/resume of the recording function whilst text is added or edited, permitting a finished survey video to be created as a single file without further editing. It also permits the capture of JPEG picture files at any point. A simple file naming and numbering feature is provided for easy file management.

Plug-and-play compatibility with the Revi 250 push rod camera and a high brightness anti-glare 15" TFT screen complete the picture.



Push the Distance with the Revi 250

Compact and Tough

Clever design and attention to detail make for an unbeatable rod and reel combination. The low-friction push rod is a tough, resilient, reliable but still flexible assembly that will out-perform anything else in its class. Well able to push its standard 60 metre length under almost all conditions, it can still negotiate difficult bends. An 80 metre length option is available. The compact stainless steel frame, whilst stable in use, occupies an astonishingly small footprint in the van and, at just 13 Kg in standard configuration, is easily deployed for use. A rugged adjustable brake provides a little friction to control spillage or secure for transit. Cleats neatly hold the 10 metre link cable supplied.

Camera

A sturdy stainless steel housing, a thick polycarbonate LED cover and a scratch resistant sapphire window make a durable outer casing for the self levelling camera assembly. With control over the 36 high brightness LED's, a five element lens and a new generation CCD, performance and picture quality under the most demanding conditions in pipes from 100mm up to even 225mm is realised.

Locating

A remotely switched 33KHz sonde is built-in to the rod termination assembly.

Skids

A unique design of skid provides unparalleled protection and functionality. Made from just two substantial mating nylon parts, the two sizes supplied can be readily interchanged even when wearing gloves, and without tools or risk of losing any small vital parts.

A Choice of Base Units

The Revi 250 base unit is available in "PC" or "DVD" versions, both with a high brightness anti-glare 15" TFT screen. The PC version has the same DigiCAN software as the Revi 550 (see above). The DVD version has traditional style on-screen display facilities and a separate DVD/HDD recorder. The push rod also works with the Revi 550 base unit and the ultra-portable Revi 100 battery box.



"the Revi 250 reel has to be used to be fully appreciated"



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Czech Republic
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DCR Inspection Systems

DCR Inspection Systems Limited, formerly known as Drain Camera Repairs, was established in 2006 and incorporated in 2007 when we became the UK service centre for Ibos equipment as well as its sales agency. We continue to service all makes of pipe inspection cameras as well as to supply and integrate Ibos equipment into customer's existing systems.

DCR currently comprises Bob Butler, Andy Butler and Dave Glover who collectively have nearly 50 years experience in the CCTV pipe inspection business. We are therefore well qualified to offer advice on the suitability of equipment for particular applications or to suggest how it might be adapted.

Operators appreciate that using sophisticated electronic systems in the hostile drain inspection environment takes its toll on even the most robust equipment. We at DCR deliver a fast, friendly and cost effective repair service which is an integral part of the Ibos camera package.

Revi 550 Specifications

Base Unit

- Dimensions (mm): 390H x 580W x 450D
- Weight: 29kg
- PC¹: min. 2.6GHz, 1GB, 250GB HDD, Win. XP

Rewind Drum

- Dimensions (mm): 470H x 400W x 630D
- Weight: 38kg
- Cable 200m: 250kg minimum breaking strain

Tractor²

- Dimensions (mm): 550H x 106W x 116D
- Weight: 15kg

Camera Module

- 10 X optical zoom (4.2 to 42mm)
- Focal range 10mm to ∞
- Sensitivity: 0.1 Lux @ F1.8 lens setting
- Resolution: 460 lines

Pan & Rotate Axes

- Pan: speed variable; limits ±120°
- Rotate: variable speed; unlimited 360° continuous

Power Requirements³

- 750W @ 95_260V

Revi 250 Specifications

Base Unit

- Dimensions (mm): 170H x 420W x 360D
- Weight
 - PC: 15kg
 - DVD: 14kg
- Power requirements³
- PC: 250W @ 95_260V
- DVD: 200W @ 95_260V

Push Rod

- Dimensions (mm): 720H x 610W x 230D
- Weight: 13kg⁴
- Rod: 60m or 80m x _7.5mm

Notes

All figures are approximate. Ibos e.u. reserve the right to alter specifications without notification.

- 1 Computer specification is subject to continuous revision. Please call DCR Inspection Systems for details or to discuss requirements.
- 2 Fitted with smallest wheel set for 150mm pipes and including pan & rotate head.
- 3 This figure is maximum working load but should not be used to specify generators or inverters directly. Please seek professional advice. All inputs are universal.
- 4 60m version with _100mm skid.



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