



**QUALITY BUILT MAINLINE CCTV INSPECTION SYSTEMS**  
**OVER 20 YEARS EXPERIENCE**



PIPELINE CRAWLER INSPECTION SYSTEM



# **PROTEUS ELITE PACKAGE**

The Proteus Elite Package is a fully featured system that gives you all the tools to inspect 6" to 24" pipelines. The system can be mounted into a van, trailer or even into the back of a pickup truck. With a vast amount of integrated technology and a wide range of accessories, the capabilities of this package are limitless!

## ***PROTEUS ELITE PACKAGE INCLUDES:***

### **THE PROTEUS CONTROL UNIT**

Feature rich, the Proteus controller has twin integral joysticks for camera control and crawler maneuverability, and an ergonomic soft-touch keypad. User friendly multi-function hot keys allow for quick and easy control of all Proteus features.



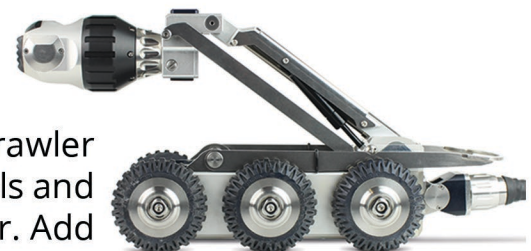
### **1,640' FULLY AUTOMATIC REEL**

The Proteus ACR500 is outfitted with 1,640' of high strength, Kevlar reinforced cable. Reel is fully synchronized allowing for ultra smooth, tangle free pay-out and rewinding. Also includes adjustable cable pulley guide and multi-function Bluetooth remote.



### **CRAWLER WITH MOTORIZED LIFT**

The CRP140 crawler is a fully featured, sophisticated mid-size crawler that is perfect for pipes 6" up to 24". Includes 6 quick lock wheels and a motorized lift that can be adjusted directly from the controller. Add the optional crawler cradle to inspect pipes as large as 40".



### **PAN & TILT, ZOOM & LASER CAMERA**

Featuring 10x optical zoom and 6 built in LED lights making it perfect for large diameter pipes or providing high quality, detailed video in mid-sized pipes. Additional features include a twin laser defect measurement system and a pipe diameter sensor.



### **ALSO INCLUDED**

- Top Manhole Roller
- Bottom Manhole Roller
- Lowering Hook
- 16' Link Cable
- Pressure Test Kit
- Crawler Tools
- Camera Tools



## **CONTROLS & SOFTWARE –**

### **Control Unit (CCU208)**



Digital Control Unit, twin joysticks, crawler cruise control, MPEG4 recording, jpeg still image capture, intuitive hot keys, SD card, Wi-Fi for transferring files and data. Internal battery for viewing and copying on the move, very low power consumption (24vdc @5amps).

### **Van Fit Control Unit (VKU500)**



Van fit rack mount CCU (VCU500) and Desktop keyboard (VKU500) with twin 6 axis joysticks. Features include: Crawler cruise control, MPEG4 recording, jpeg still image capture, intuitive hot keys, 2 x external USB ports. Can connect to PC monitor via HDMI or VGA. RS232 socket and 2 x BNC Video outputs. WinCan embedded (dependant on catalogue availability) and Pro Pipe Plus reporting software installed as standard.

### **Win-Can Embedded Software**



**This is not a Win-Can licence**, it has the WSA2008 & 20013 codes pre-loaded into the Control Unit to allow reporting in remote areas, backyards, without having to connect Laptops or PCs.

Option files such as PDF, WORD, JPEG, MPEG & XML, makes work a lot more professional. Imports into a WinCan VX licence.

### **Pro Pipe + Software**



Uncomplicated and efficient, ProPIPE+ Reporting Software is programmed into the Proteus Control Unit, giving the ability to perform comprehensive inspection reports on site and handed directly to the customer. Customize to fit your company logo and details makes a very professional package.

### **Pro Laser Profiling**



A laser scan of a pipe is an ideal addition to any CCTV inspection. It assists tremendously in classification of the pipe observations. WinCan generates the report fully automatically, including diameter, ovality, capacity and provides XYZ-Data

### **Proteus Lite Package**



Perfect for the starter, ready to work that includes:

- Control Unit, CCU208
- Manual Cable Reel with 250m of cable, RMPL250
- CPL150 Crawler, inspects from 150mm – 375mm in centre
- CAM026 P&R Camera Head

Optional:

- Sonde
- Inclination sensor

Fully compatible with all Proteus Crawlers, Camera heads & Coilers

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## **CABLE REELS -**

### **100m Manual Cable Reel (RMP100)**



Manual cable reel that holds up to 100 metres of cable, Self-layering to keep the cable neat and tidy, removable drip tray, removable winding handle. Can also be mounted on the Portable Trolley System. 16kg  
**100 metre cable included.**

### **250m Manual Cable Reel (RMP250)**



Manual cable reel that holds up to 250 metres of cable, Self-layering to keep the cable neat and tidy, removable drip tray, removable winding handle. Can also be mounted on the Portable Trolley System. 24kg  
**250 metre cable included.**

### **350m Manual Cable Reel (RMP300)**



Manual cable reel that holds up to 350 metres of cable, Self-layering to keep the cable neat and tidy, removable drip tray, removable winding handle. Can also be mounted on the Portable Trolley System. 32kg  
**350 metre cable included.**

### **250m Automatic Cable Reel (RAP250)**



Motorised Cable reel for up to 250 metres of inspection cable. Reel extends and retracts cable in sync with crawler speed, adjustable torque, emergency stop, manual operation function, has its own 24V power supply. 32.5kg  
**250 metre cable included.**

### **350m FULLY Automatic Cable Reel (ACR350)**



Fully automatic cable reel that holds 350m of cable, self-layering to keep the cable neat and tidy. Removable drip tray. Fully synchronised with the crawler for hassle free pay out and retrieval. Comes supplied with Joystick Bluetooth remote control (RJP01). Please note: Van mount guide pulley (VGP350) must be ordered separately if needed.  
**350M CABLE INCLUDED**

### **500m FULLY Automatic Cable Reel (ACR500)**



Fully automatic cable reel that holds 500m of cable, self-layering to keep the cable neat and tidy. Removable drip tray. Fully synchronised with the crawler for hassle free pay and retrieval. Comes supplied with van mounted guide pulley and Joystick Bluetooth remote control (RJP01).  
**500 metre cable included**

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## **CAMERAS & LIGHTS -**

### **Pan and Rotate Zoom Camera (CAM028)**



High resolution Zoom camera module with 10x optical, 12x digital zoom. Powerful LED Lighting, auto-focus, built in lasers for measurement, pressurised, endless rotation, +/-135° pan, pressure rated to 1 bar. 140mm x 80mm OD

### **Pan and Rotate Camera (CAM026)**



High resolution camera module, extremely powerful LED lighting, Adjustable focus, pressurised, endless rotation, +/- 135° pan, pressure rated to 1 bar. 120mm x 73mm OD

### **Pan and Rotate Camera with Parallel Lasers (CAM026L)**



High resolution camera module, extremely powerful LED lighting, Adjustable focus, pressurised, endless rotation, integral distance sensor and visible lasers to enable accurate pipe diameter, defect and object measurement. +/- 135° pan, pressure rated to 1 bar. 120mm x 73mm OD

### **Axial Camera (CAM027)**



High resolution camera module, extremely powerful LED lighting, Adjustable focus, pressurised, pressure rated to 1 bar. 84mm x 50mm OD

### **Auxiliary Lights/Backeye (ALB300)**



Extremely powerful LED light. Features a colour rear view camera to aid crawler reversing. For use with CRP150 and CRP300 crawlers in larger diameter pipes.

### **Auxiliary Lights (ALN300)**



Extremely powerful LED light. For use with CRP150 and CRP300 crawlers in larger diameter pipes.

### **Auxiliary Light Pod/Backeye (APB300)**



Used in 300mm pipes upwards, with extremely powerful LED auxiliary lights helps for inspections in larger pipes. Features a colour rear view camera to aid crawler reversing. Directional light function has a full horizontal 180 degrees rotation and 90 degrees upward rotation,

## **CRAWLERS & WHEELS -**

### **INSPECTING FROM 100MM TO 225MM**

#### **90mm Crawler (CRP90)**



For use in pipe sizes working from 90mm to 300mm, 6-wheel drive, steerable, pressurised, built in multi frequency sonde. The crawler is also built in with a unique motorised elevator and lowering device. Features our patent pending wheel lock system. Supplied with 6 x 60mm wheels.

#### **STANDARD WHEELS**

#### **USED ON CRP90**



For use with our patent pending wheel lock device to make changing wheels quick and easy.

**QRW60/90** - for use in 100mm.

**QRW90/90** - for use in 150 to 200mm.

**QRW90XL/90** - for use in 200 to 300mm.

#### **SILICA SAND HIGH GRIP WHEELS**

#### **USED ON CRP90**



Special rubber impregnated with Silica sand. For use in wet / greasy. Features our patent pending wheel lock device to make changing wheels quick and easy.

**QRW90HG/90** - for use in 150 to 200mm.

**QRW90HGXL/90** - for use in 200 to 300mm.

#### **CARBIDE HIGH GRIP WHEELS**

#### **USED ON CRP90**



Special carbide wheels. For use in plastic pipes to help improve traction.

Features our patented wheel lock device to make changing wheels quick and easy.

**QRW60CB/90** - for use in 100mm.

**QRW90CB/90** - for use in 150 to 200mm.

**QRW90CBXL/90** - for use in 200 to 300mm.

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## INSPECTING FROM 150MM TO 375MM

### 150mm LITE Crawler (CPL150)



Entry level, mid-sized crawler with manual elevator

The perfect companion to the RMPL250. CPL150 has the same professional grade quality, reliability and accuracy as our mainline Proteus crawlers. Supplied with 6 x 90mm wheels.

**Optional Sonde & Inclination**

### STANDARD WHEELS



For use with our patent pending wheel lock device to make changing wheels quick and easy.

**QRW90/150** - for use in 150 to 225mm.

**QRW115/150** - for use in 200 to 300mm.

**QRW140XL/150** - for use in 300 to 375mm

### SILICA SAND HIGH GRIP WHEELS



Special rubber impregnated with Silica sand. For use in wet / greasy. Features our patent pending wheel lock device to make changing wheels quick and easy.

**QRW90HG/150** - for use in 150 to 225mm.

**QRW115HG/150** - for use in 200 to 300mm.

**QRW140HG/150** - for use in 300mm and above.

### CARBIDE HIGH GRIP WHEELS



Special carbide wheels. For use in plastic pipes to help improve traction.

Features our patented wheel lock device to make changing wheels quick and easy.

**QRW90CB/150** - for use in 150 to 225mm.

**QRW115CB/150** - for use in 200 to 300mm.

**QRW140CB/150** - for use in 300mm and above



## INSPECTING FROM 150MM TO 1,050MM

### 140mm Crawler (CRP140)



For use in pipe sizes from 150mm to 600mm, 6 wheel drive, steerable, electronic elevator, flexible rear connector with built-in pressure valve, brass body (additional 1.5kg heavier than CRP150). Multi frequency sonde. Features our patent pending wheel lock system, cradle ready centred to 1,050mm pipe. Supplied with 6 x 90mm wheels.

### STANDARD WHEELS



For use with our patent pending wheel lock device to make changing wheels quick and easy.

**QRW90/140** - for use in 150 to 225mm.

**QRW115/140** - for use in 200 to 300mm.

**QRW140/140** - for use in 300 to 450mm

**QRW140XL/140** - for use in 450mm and above

### SILICA SAND HIGH GRIP WHEELS



Special rubber impregnated with Silica sand. For use in wet / greasy. Features our patent pending wheel lock device to make changing wheels quick and easy.

**QRW90HG/150** - for use in 150 to 225mm.

**QRW115HG/150** - for use in 200 to 300mm.

**QRW140HG/150** - for use in 300mm and above.

### CARBIDE HIGH GRIP WHEELS



Special carbide wheels. For use in plastic pipes to help improve traction.

Features our patented wheel lock device to make changing wheels quick and easy.

**QRW90CB/150** - for use in 150 to 225mm.

**QRW115CB/150** - for use in 200 to 300mm.

**QRW140CB/150** - for use in 300mm and above

### CRP140/150 (PCC01)



For use with the CRP140 or CPL150 crawlers. Quickly attach the crawler to extend its capability from 600mm up to 1,050mm. Features a unique gear selector to choose between high speed lower torque or lower speed higher torque. Comes supplied with 4 x 220mm & 4 x 250mm balloon wheels.



## INSPECTING FROM 300MM TO 2200MM

### 300mm Crawler (CRP300)



For use in pipe sizes of 300mm to 1000mm. 6 wheel drive, steerable, pressurized, electronic clutch, built in motorized elevator, built in multi frequency sonde and built in lowering device. Features our patent pending wheel lock system. Supplied with 6 x 140mm wheels.

### 250MM Balloon Wheels (set of 4) (QRW250)

### USED ON CRP300



Set of 4 X 250mm pneumatic balloon wheels. For use with our patent pending wheel lock device to make changing wheels quick and easy. Ideal for use in heavily silted pipes.

**Only for CRP300**

### 250MM XL Balloon Wheels (set of 4) (QRW250XL)

### USED ON CRP300



Set of 4 X 250mm extra wide pneumatic balloon wheels. For use with our patent pending wheel lock device to make changing wheels quick and easy. Ideal for use in heavily silted pipes.

**Only for CRP300**

### Camera Raise Kit (CEP300)



The Camera Raise Kit allows surveying up to **2.2 Metres** when attached to the CRP300 crawler. Comes with 3x Auxiliary lights and full rotation unit

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## **COILERS –**

### **Proteus Coiler – Ready (CCP60R)**



Connects directly to the Proteus control unit (CCU208), removable self-levelling axial camera head. Supplied with accessory case containing 3 sizes of centering skids.

**Available in 60m & 100m**

### **Proteus Coiler – Duo (CCP60D)**



Connects directly to the Proteus control unit (CCU208), removable self-levelling axial camera head. Supplied with accessory case containing 3 sizes of centering skids. Also supplied with Pan and Rotate accessory case containing centering skids and spring for CAM026.

**Available in 60m & 100m**

### **Roller Skids 130mm – used with CAM025**



Use Mini-Cam Roller Skids to increase the effectiveness and lifespan of your pipeline inspection system. Simply fit the skid and the three pivoting arms with specially shaped nylon wheels keeping the camera head centered in the pipeline at all times.

### **Roller Skids 130mm – used with CAM026**



Use Mini-Cam Roller Skids to increase the effectiveness and lifespan of your pipeline inspection system. Simply fit the skid and the three pivoting arms with specially shaped nylon wheels keeping the camera head centered in the pipeline at all times.

### **Roller Skids 180mm – used with CAM025**



Use Mini-Cam Roller Skids to increase the effectiveness and lifespan of your pipeline inspection system. Simply fit the skid and the three pivoting arms with specially shaped nylon wheels keeping the camera head centered in the pipeline at all times.

### **Roller Skids 180mm – used with CAM026**



Use Mini-Cam Roller Skids to increase the effectiveness and lifespan of your pipeline inspection system. Simply fit the skid and the three pivoting arms with specially shaped nylon wheels keeping the camera head centered in the pipeline at all times.

### **Lateral Pin Kit (ASS-001-968)**



Used exclusively with the Pan & Rotate camera (**CAM026**), simply attach the pin to allow the inspection of incoming lateral pipe. The pin adjusts the direction and guides the camera smoothly along the pipe. The kit comes with three sizes of pin small 150mm (6in), medium 225mm (9in) large 300mm (12in), fixings and full instructions.

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## ACCESSORIES-

### Portable Trolley (PTP01)



A lightweight trolley system to enable the Proteus system to be used in hard to reach areas. The Trolley houses the CCU and either the RMP100 or RMP200 cable reels. Brackets are also provided to mount the Battery Pack. Comes supplied with 1.5 metre system Link cable.

### Battery Pack (BPP24)



Lithium Ion battery pack for use to power the entire Proteus system for up to 5 hours. Can be directly mounted to the Portable Trolley System for further portability. Charged using the Proteus CCU power supply.

### Remote Control Joystick (RJP01)



Easy to use single thumb control joystick for RAP200/300. Bluetooth operation, battery powered with inductive charging station.

Functions: Crawler in all directions, Cable drum in/out & torque, Camera head in all directions, elevator control & illumination

### Remote control 4 function (RCP4)



Easy to use 4 button remote control for RAP200/300. Bluetooth operation, battery powered with inductive charging station.

Functions: crawler forward/reverse, Cable drum in/out.

### FLOTATION UNIT (FRP01)



For use in pipes with high water flow. Suitable for use in pipe sizes of 600mm to 3000mm. Features **3 x Aux light units** which are angled to help illuminate larger diameters.



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## **ACCESSORIES-**

### **Van Mounted Cable Guide Roller for ACR350 (VGP350)**



Van mounted fully adjustable cable guide roller for ACR350. For van fit installations to help reduce friction for smooth pay off and retrieval.

### **Van Mounted Cable Guide Roller for RMP/RAP300 (VGP300)**



Van mounted fully adjustable cable guide roller for **RMP/RAP300**. For van fit installations to help reduce friction for smooth pay off and retrieval.

### **Cable Reel Guide (CGP200 / CGP300)**



Reduces friction and provides additional guidance for the cable when paying out and rewinding. Also brushes and cleans the cable when rewinding. Available to fit Mini-Cam motorised and manual, 300 metre and 200 metre reels

### **Cable Guide Pulley (CGP01)**



Features a roller system to help prevent the cable from damage when entering into the pipe. It should be attached to the manhole and is supplied with a rope for fastening.

### **Manhole Top Roller (TRP01)**



An adjustable manhole top roller to suit most sizes of manhole opening.

Helps to prevent cable damage

### **Tilting Table (TTC01)**



Increased manoeuvrability of the control unit position to give improved screen viewing and keyboard use

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## **ACCESSORIES-**

### **Link Cable (LCP05)**



5 metre link cable to connect the control unit to the cable reel.

### **Van Interface Box (VIP05)**



your system is being installed in a van then this will be required. A 5 metre link between the control unit and the rear of the van allows cable reels, coilers and extension reels to be connected quickly and easily from the rear work area. Also includes a 1 metre coiled link cable for tidy installation.

### **30 Metre Extension Reel (ERP30)**



30 metre extension reel to allow the cable reel / coiler to be used away from the control unit.

### **50 Metre Extension Reel (ERP50)**



50 metre extension reel to allow the cable reel / coiler to be used away from the control unit.

### **100 Metre Extension Reel (ERP100)**



100 metre extension reel to allow the cable reel / coiler to be used away from the control unit.

### **200 Metre Extension Reel (ERP200)**



200 metre extension reel to allow the cable reel / coiler to be used away from the control unit

- Self -layering of cable for neat pack up
- Full control functions for crawler and camera head
- Protection roll cage to protect internal reel

## **ACCESSORIES-**

### **100mm Camera Extender**



The Crawler Camera Extender moves the camera position 100mm forward. Your 90° downward views now show the invert of the pipe and not the crawler.

### **Cable to Camera Adaptor (PCA01)**



A useful accessory to have in your inspection kit. The Inline Camera Adaptor allows the user to connect a camera to the CCU without the need for a crawler. The PCA01 features dual housings to allow 2 auxiliary lights to be connected.

### **Brick Egg Stabilizer**



A simple quick fit to our Proteus Crawler, the Brick Egg Stabilizer stops the crawler from rolling over during inspections in pipes with an egg-shaped profile.

**BEP300** fits Proteus CRP300

**BEP150/140** fits Proteus CPL150 and CRP140

### **SeeSnake INTERFACE (SPP01)**



Sturdy and robust construction, the Mini-Cam SeeSnake Interface unit connects the SeeSnake Standard Camera to Mini-Cam's intuitive and advanced Proteus Control Units

### **Sonde Locator**



- Simple easy to operate system Sonde/Camera locator
- Auto Depth on Sonde & Camera mode
- Works on 512, 640 Hz along with 33 KHz (other frequencies available)
- Power Passive & RF mode for passive sweeping of underground power
- InBuilt Line Location mode (optional transmitter required)
- Includes carry bag