Proteus™
PIPELINE CRAWLER INSPECTION SYSTEM

FUTURE PROOF AND EXPANDABLE PIPELINE INSPECTION SOLUTION

Mini-Cam
InPipe Innovation
TRIED & TESTED
OUR PROTEUS SYSTEM
TICKS ALL THE BOXES!

With our experience of innovative solutions for the pipeline inspection industry extending back over 20 years, we have created our most advanced, most capable, most feature-rich system. Proteus™ has been designed to meet your needs in the real world: a system which is highly affordable, reliable, and fully supported by experienced engineers and our “How To” video built-in support. The Proteus system is highly expandable and - most importantly - future proof.

INTELLIGENT, FLEXIBLE, RUGGED ENGINEERED TO MAKE EASY WORK OUT OF CHALLENGING ENVIRONMENTS

All Proteus crawlers feature CAN bus technology, allowing communication directly between each piece of attached equipment, and can relay control and status information such as activity, speed, pressure, inclination and temperature.

Designed and developed in-house, Mini-Cam’s Proteus crawlers are part of an entry level modular system for the pipeline inspection market, and can be installed as part of our Custom Van-Fit service (UK only - visit www.minicam.co.uk/custom-van-fits), or be fully portable with the Proteus Storage Trolley and Proteus Power Pack (see page 27), giving up to five hours of inspection in a highly compact solution.

www.minicam.co.uk

Crawler Proteus CRP300
Pan & Rotate Zoom Camera CAM028
Auxiliary Light/Backeye ALB300
Auxiliary Light ALN300
Wheels QRW140SR/300
Capture Footage
Grab MPEG video and JPEG images, and zoom up to 3X on video.

Enter Observations
Use optional data-entry module to log inspection findings.

Review Footage
Organize videos and image folders, then find them using the thumbnail gallery; review media using standard controls.

Generate Reports
Use optional reporting module to create an inspection report, then transfer it to USB media for on-site delivery.

Offload Data
Copy video, images and data to USB or SDHC media for easy transfer to PC and seamless integration with WinCan reporting and querying capabilities.

Write Screen Text
Type and store up to 16 pages of on-screen text. Customize text colour, position and background colour.

Control Hardware
Set sonde frequency, adjust illumination, and zero/offset meterage.

Configure Preferences
Set language and date/time; establish file formats and naming conventions; adjust camera parameters; choose interface theme and power-saving scheme; update firmware.

Use the SOLOPro+ control unit to view, record and annotate inspection footage from any composite video source.

ProPIPE Report was designed and developed by Mini-Cam’s in-house team of software engineers. It enables users to create professionally presented, detailed reports while on site. Quick and easy-to-use, ProPIPE Report streamlines pipeline inspection diagnostics, making your business ultra efficient, reducing your costs and eliminating those long hours in the office.

WinCan SOFTWARE
You can also export observation data seamlessly to WinCan software (sold separately) and benefit from: database capabilities • WRc3 and WRc4 compliance • GIS Integration • advanced technology modules • enhanced reporting • support for network installation and enterprise databases (Oracle, SQL).
Quick Change Wheel Lock
Designed and developed exclusively by Mini-Cam, our unique patented wheel lock device makes changing wheels quick and easy.

Flexible Rear Connector
Quick and easy to connect. Provides flexibility to reduce stress on the cable when lowering and retrieving the crawler.

In-built Lowering Arm
For fast and easy deployment and retrieval of the crawler

Motorised Elevator Arm
The in-built motorised elevator allows for quick and easy centring of the camera in pipe sizes up to 300mm (12in).

In-built Multi-Frequency Sonde Transmitter
33Khz, 512hz or 640hz. The frequency can be selected in the control unit menu.

CRP90 KEY FEATURES
• Motorised Elevator
• Optional Cameras
• Auxiliary Backeye
• Inclination Sensor
• Optional Large Wheels
• Optional Performance Wheels
• Flexible Rear Connector
• In-built Lowering Device
• Quick Change Wheel Lock

CRP90

THE CRP90 IS THE SMALLEST CRAWLER WE HAVE DEVELOPED
MASSIVE CAPABILITIES SKILFULLY MINIATURISED

CRP90 KEY FEATURES
• Motorised Elevator
• Optional Cameras
• Auxiliary Backeye
• Inclination Sensor
• Optional Large Wheels
• Optional Performance Wheels
• Flexible Rear Connector
• In-built Lowering Device
• Quick Change Wheel Lock

THE PROTEUS CRP90 IS THE SMALLEST CRAWLER WE HAVE DEVELOPED

MASSIVE CAPABILITIES SKILFULLY MINIATURISED

Proteus CRP90 is packed with innovative features including an in-built motorised lift which enables the camera to be centred in pipe diameter of up to 300mm (12inch), in-built lowering device for quick and easy deployment and retrieval, flexible rear connector to reduce cable stress and Mini-Cam’s patented quick-change wheels.

THE CRP90’S COMPACT SIZE ALLOWS IT TO EASILY SURVEY RELINED 100MM (3.9in) PIPES

In-Built Multi-Frequency Sonde Transmitter
33Khz, 512hz or 640hz. The frequency can be selected in the control unit menu.

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PERFECT FOR PIPES

150-600mm (6 - 24 inches)

Optional Cameras
Choose from Axial camera (CAM027), Pan & Rotate (CAM026) or Pan & Rotate Zoom (CAM028)

Auxiliary Backeye
The auxiliary light features a colour rear view camera to aid crawler reversing.

CRP140 KEY FEATURES

FLEXIBLE REAR CONNECTOR
Quick and easy to connect. Provides flexibility to reduce stress on the cable when lowering and retrieving the crawler.

Soft Black Rubber Wheels
Developed to provide improved traction in regular pipes.

Performance Wheels
4 different size wheel options. Carbide and High Grip for specific conditions and wide axle for larger pipe sizes.

Camera Quick-Lock
Mini-Cam’s unique camera lock makes connection quick and easy.

Quick-Change Wheel Lock
Designed and developed exclusively by Mini-Cam, our patented wheel lock device makes changing wheels quick and easy.

Heavy Duty Connector
Our robust, heavy-duty lock system requires no tools to connect or dis-connect.

Inclination Sensor
The lateral axis detects the crawler roll angle. The longitudinal axis determines pipe inclination and can be recorded in the survey.

Performance Wheels
4 different size wheel options. Carbide and High Grip for specific conditions and wide axle for larger pipe sizes.

Motorised Elevator
For easy centring of the camera in pipe sizes up to 600mm

CRP140 KEY FEATURES

OUR BEST SELLING BODY WITH MOTORISED ELEVATION

Modelled on our best selling CRP150 crawler, this compact, nickel-plated brass body, sports a newly developed motorised elevator, plus all Mini-Cam’s innovative and unique connections, locks, and devices. With a proven track record of performance and reliability, users can rest assured the CRP140 will improve productivity, and deliver quality inspections time-and-time again, in the most challenging environments.

Performance Wheels
4 different size wheel options. Carbide and High Grip for specific conditions and wide axle for larger pipe sizes.

Motorised Elevator
For easy centring of the camera in pipe sizes up to 600mm

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www.minicam.co.uk

CRP140 KEY FEATURES
**PERFECT FOR PIPES**

[Image: Perfect_for_Pipes_150-600mm_6-24_inches]

**INNOVATIVE ACCESSORIES TO MAKE THE JOB EASIER!**

Van Guide Pulley VGP01 Reduces friction and provides additional guidance for the cable when paying out and rewinding. Use with Mini-Cam motorised and manual, 300 metre and 200 metre reels.

**Cable Reel Guide**

CGP300/CGP200 Reduces friction and provides additional guidance for the cable when paying out and rewinding. Also brushes and cleans the cable when rewinding. Use with Mini-Cam motorised and manual, 300 metre and 200 metre reels.

**Van Guide Pulley VGP01**

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Motorised Elevator

**NEW**

**CRP300**

**KEY FEATURES**

- Electronic Clutch
- Motorised Elevator
- Built-in Multi-Frequency SONDE
- LED Auxiliary Lights
- Optional Cameras
- Auxiliary Backeye
- Inclination Sensor
- Quick Release Wheel Locks
- 4 Wheel Size Options
- Optional Balloon Wheels
- Optional Performance Wheels
- Heavy Duty Connector
- In-built Lowering Device

Proteus™ CRP300 is a beast of a crawler, tallly solid enough to provide unparalleled inspection possibilities in larger diameter pipes with high flow rates. Made for challenges “The Beast” makes easy work of some of the more difficult environments, and gives even more benefits as part of the wider Proteus system.

The Beast has all the features and functionality of its smaller, more compact partners — CRP90 and CRP150 — and the same professional-grade quality, reliability and accuracy our customers expect from a Proteus crawler.

**MADE FOR CHALLENGES**

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**NEW**

**Camera Elevation Platform CEP300**

This telescopic elevator quickly attaches to the CRP300 crawler and can be manually moved up or down to increase inspection capabilities up to 2000mm. Interface for cameras and auxiliary lights.
Proteus™ ATEX crawlers have been engineered, built and tested for safe use in some of the most dangerous situations, without compromising on any of the features and benefits of our other Proteus crawlers. All our crawlers are available in ATEX approved versions which make working in ZONE 2 and other explosion-risk environments much easier and safer than alternative methods, giving you a clear, sharp eye into the unknown, without introducing risk through use of electronic devices.

They have all the features, functionality and agility of the CRP90, CRP150 and CRP300 crawlers with the same professional-grade quality, reliability and accuracy our customers expect from a Proteus crawler.

The Proteus ATEX crawlers feature as standard: built-in height adjustment, multi-frequency SONDE, lowering device, and variable wheel size options using our unique patented quick release locking system.

ATEX Auxiliary Light with Backeye
ALE300EX

ATEX Pan & Rotate Camera
CAM026EX

ATEX Pan & Rotate Zoom Camera
CAM028EX

ATEX Pan & Rotate Camera with Backeye
CAM026EX

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UNCOMPROMISING PERFORMANCE
AND SAFETY
ZONE 2 COMPLIANT

Backeye CAMERA
Capture images from behind the camera

Pan & Rotate 360° continuous rotation and 
135°+/− Pan

Dual AUX LIGHTS
Optimum illumination for image clarity

Keep on Track
Heavy duty 250mm pneumatic balloon wheels

EASY DEPLOYMENT AND RETRIEVAL
Using the in-built lowering device

AUX ZONE 2 CERTIFIED

AUX ZONE 2 CERTIFIED
Designated and developed in house, Mini-Cam’s range of cameras and auxiliary lights include the tried and tested Pan and Rotate (CAM026) with 360° continuous rotation and 135° +/- pan, the forward facing Axial camera (CAM027) with focal capabilities, the non-back-eye Auxiliary Light (ALN300) and the Auxiliary Light (ALB300) with reverse camera. All feature high powered ultra-bright LED lighting to provide optimum illumination for improved clarity of images. Featuring high powered ultra-bright LED lighting and motorised focus our auxiliary lights provide optimum illumination for better clarity of images.

Shudder-free horizontal and vertical viewing is smooth and easy with the pan and tilt function and full 360° rotation, and our unique quick install connector makes getting ready for pipeline inspection as easy as twist-and-lock.

Selected cameras from Mini-Cam’s range are available in ATEX Zone 2 Certified versions.
Push rod coiler CCP60R (Ready) with removable self levelling camera head. Designed to plug directly into the Proteus CCU. Also available as CCP60D (Duo) allowing the Pan & Rotate camera (CAM026) supplied with the Proteus crawler to be attached. Robust construction with powder coated finish.

Available with 60 metre or 100 metre rod lengths.

**COMPATIBLE COILER**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product Code: CCP60 Compatible Coiler</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Power Consumption</td>
</tr>
<tr>
<td>Weight (without CCU)</td>
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<tr>
<td>Temperature Range</td>
</tr>
<tr>
<td>Environmental Protection (Camera)</td>
</tr>
<tr>
<td>Environmental Protection (Coiler)</td>
</tr>
</tbody>
</table>

Above: A – Compatible Coiler with Pan & Rotate Camera CCP60/CAM026 B – Compatible Coiler with Axial Camera CCP60R/CAM025
MANUAL CABLE REELS

Sturdy, rugged and built to withstand harsh environments. Mini-Cam manual cable reels are compact, portable and easy to use. The robust powder coated frame houses high tensile strength Kevlar reinforced inspection cable.

Smooth pay-out and re-winding is performance enhanced by the cable layering mechanism and durable heavy duty turning handle. The specialised crawler connector provides a waterproof seal and there’s a removable drip tray for easy cleaning and maintenance.

The reels are available in 3 sizes: small 100m, mid-size 200m and large 300m reels. The small and mid-size reels can be fitted to our Portable Storage Trolley (PTP01) shown opposite on page 27, and the large reel is ideal for being installed as part of our SurveyPro CCTV Van Fit-out. (visit www.minicam.co.uk/custom-van-fits).

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Code</th>
<th>RMP100</th>
<th>RMP200</th>
<th>RMP300</th>
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<tbody>
<tr>
<td>Dimensions (L x W x H)</td>
<td>530 x 220 x 520mm</td>
<td>530 x 280 x 520mm</td>
<td>530 x 400 x 520mm</td>
</tr>
<tr>
<td>Weight</td>
<td>18kg (40lb)</td>
<td>27kg (60lb)</td>
<td>37kg (82lb)</td>
</tr>
<tr>
<td>Cable Length</td>
<td>100metres</td>
<td>200metres</td>
<td>300metres</td>
</tr>
<tr>
<td>Environmental Protection</td>
<td>Splash Proof</td>
<td>Splash Proof</td>
<td>Splash Proof</td>
</tr>
</tbody>
</table>

MOTORISED CABLE REEL

EASY ONE-PERSON OPERATION IN REMOTE LOCATIONS

Built to the same exacting standards as our manual cable reels, these labour saving motorised reels are sturdy, rugged and built to reliably perform efficient pipeline inspections.

Mini-Cam motorised cable reels are designed for easy one-person operation in remote locations. The reels are fitted with high tensile strength Kevlar reinforced inspection cable. The ultra-smooth operation is provided by the powerful three phase motor and cable layering mechanism for uninterrupted, tangle free pay-out and re-winding. A rigid, clear safety screen prevents contact with the cable whilst coiling. In the event of an emergency, the reel also features an emergency stop button. The specialised crawler connector provides a waterproof seal and there’s a removable drip tray for easy cleaning and maintenance.

The optional hand-held 4 button, Bluetooth® control allows the user to remotely operate paying-out, re-winding and crawler movement. Motorised reels are available in 2 sizes – Large 300m and Small 200m. The 200m reel has secure fixing points for fitting to our Portable Storage Trolley (PTP01) see page 27. Both reels are ideal for being installed as part of our Custom Van Fit (UK only).

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Code</th>
<th>RAP200</th>
<th>RAP300</th>
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<tbody>
<tr>
<td>Dimensions (L x W x H)</td>
<td>530 x 320 x 520mm</td>
<td>530 x 440 x 520mm</td>
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<td>Weight</td>
<td>32.5kg (60lb)</td>
<td>42.5kg (93lb)</td>
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<td>Cable Length</td>
<td>200metres</td>
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<td>Power Supply</td>
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<tr>
<td>IP Rating</td>
<td>IP54</td>
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</table>
CRAWLER WHEELS

OUR SPECIALLY DESIGNED WHEELS OFFER PERFORMANCE BENEFITS FOR VARIOUS PIPE DIAMETERS AND SPECIFIC CONDITIONS

Proteus crawlers feature Mini-Cam’s unique patented wheel lock device. This makes it easy to adapt the crawler wheel type to suit the size and condition of the pipe. Using the supplied 4mm T Bar the operation is quick and simple with no other tools required.

View the Changing Wheels “HOW-TO” video at MinicamTubeUK

WIDE AXLE WHEELS
Extend the capability of your crawler. Quick and easy to attach, wide axle wheels provide instant extra width for inspections in wider pipe diameters.

Available in Soft Black Rubber, Carbide and High Grip

NEW SOFT BLACK RUBBER
Rich black, soft rubber tyres developed to provide improved traction in regular pipes. Available in three sizes and Wide Axle

CARBIDE
Fragmented copper particles fused to an heavy duty stainless steel body. Available in three sizes and Wide Axle

PNEUMATIC BALLOON
Heavy duty, 250mm wide tyres designed to improve performance on our large Proteus CRP300 crawler. Available in one size and Wide Axle

HIGH GRIP
Hard wearing carborundum manufactured with a deep bevel profile to provide improved traction in wet and greasy pipes. Available in three sizes and Wide Axle

<table>
<thead>
<tr>
<th>Wheel Type</th>
<th>To fit CRP90</th>
<th>To fit CRP150</th>
<th>To fit CRP300</th>
<th>Recommended Pipe Diameter</th>
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</thead>
<tbody>
<tr>
<td>Soft Black Rubber Wheels</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60mm Wheel</td>
<td>60/100/90SR</td>
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<td>100mm</td>
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<td>90mm Wheel</td>
<td>90/150SR/110</td>
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<td>150mm</td>
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<td>90mm Extra Large Wheel</td>
<td>90/150SR/150</td>
<td>-</td>
<td>-</td>
<td>150mm</td>
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<tr>
<td>115mm Wheel</td>
<td>-</td>
<td>115/150SR/150</td>
<td>-</td>
<td>200 to 300mm</td>
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<tr>
<td>140mm Wheel</td>
<td>-</td>
<td>140/150SR/150</td>
<td>-</td>
<td>300 to 600mm (300)</td>
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<tr>
<td>Pneumatic Balloon Wheels</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>250mm Wheel</td>
<td>-</td>
<td>-</td>
<td>250/150</td>
<td>500mm to 1000mm</td>
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<tr>
<td>250mm Extra Large Wheel</td>
<td>-</td>
<td>-</td>
<td>250/150</td>
<td>500mm to 1000mm</td>
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</tbody>
</table>

PROTEUS CRP150EX
CAM026EX
QRW90SR/150
QRW140HG/150

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FLOATATION RAFT

PIE INSPECTION IN FLOWING WATER JUST GOT EASIER!

Eliminate the need for man-entry. The floatation raft features three extremely powerful angled auxiliary LED ultra-bright light modules to provide enough light to illuminate pipes in excess of 2000mm. Small enough to be lowered down most common sizes of manhole cover, the compact design allows inspection capabilities in pipes from 600mm.

Designed and manufactured in-house to exacting standards, the tough polyethylene construction of the raft body is impact resistant and designed to withstand challenging inspections. An in-built lowering loop makes for quick and easy deployment and retrieval, and the factory tested floatation plate ensures the device is perfectly balanced to eliminate rolling.

PORTABLE STORAGE TROLLEY

COMPLETE MOBILITY FOR YOUR PROTEUS SYSTEM

Eliminate health hazardous lifting and time consuming carrying to your remote work site. Engineered to allow for the mobile operation of your Proteus Inspection System in difficult to reach areas, such as inside buildings, or other situations a distance away from your vehicle, the trolley securely holds everything you need to efficiently undertake your pipeline inspection. Simply wheel the unit to your location, connect a camera and crawler and you’re up and running in minutes, with the added convenience of Mini-Cam’s unique Proteus Power Pack, there’s no need to rely on generator or mains power. The power pack enables pipeline inspection in the most remote locations with up to 5 hours inspection time.

PORTABLE POWER...

WHERE WILL IT TAKE YOU?

No need to rely on vehicle or mains power. Mini-Cam’s unique Proteus Power Pack enables pipeline inspections in the most remote locations with 5 hours inspection time.

The rugged pack is quick and easy to connect. Output short circuit protected, the device features LED Charge status indication, LED battery fault indication, Proteus battery state indication and Proteus auto power down on low battery.

SIMPLY PLUG & PLAY* WITH AN EXISTING PROTEUS SYSTEM

*Additional software may be required

PROTEUS POWER

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Dangerous goods shipping conformity required - please contact us for details

Equipment shown on trolley not included with PTP01
If you are a municipality, consulting engineer or contractor, the Profiler is a necessary tool for the analysis of the true pipe condition, prior to and after rehabilitation. When used as a video survey tool it can provide accuracy up to 1mm when measuring pipe size, deformation, erosion encrustation, debris, grease, flows, lateral protrusion, surface damage and holes.

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

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) and large 300mm (12in). Fixings and full instructions included.

Pressurisation is safe, quick and easy. Two kits are available: Standard CO₂ and a Nitrogen version for ATEX equipment. Supplied in a handy padded carry case. Replacement cylinders can be purchased separately.

### ACCESSORIES TO ENHANCE YOUR PROTEUS SYSTEM AND IMPROVE PRODUCTIVITY

#### PROLASER

**Accurate Analysis of the True Pipe Condition**

**Lateral Pin Kit**

**Enables Smoother Inspections of Incoming Laterals**

**Cable Guide Pulley**

**Extend Inspection Cable Life and Enable Smooth Guiding**

**Pressure Kit**

**All You Need to Purge a Proteus Crawler and Camera Head**

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**PRODETAILS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProLas Profiler</td>
<td>LMG-PRO</td>
</tr>
<tr>
<td>Lateral Pin Kit</td>
<td>ASS-001-968</td>
</tr>
<tr>
<td>Cable Guide Pulley</td>
<td>CGP01</td>
</tr>
<tr>
<td>Standard CO₂ Kit</td>
<td>PKP01</td>
</tr>
<tr>
<td>ATEX Nitrogen Kit</td>
<td>PKP02EX</td>
</tr>
</tbody>
</table>

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**www.minicam.co.uk/proteus-accessories**
**MANHOLE TOP ROLLER**

**EXTEND INSPECTION CABLE LIFE AND ENABLE SMOOTH GUIDING**

Reduces wear by preventing kinks and chafing to cables and ropes, and assists in the smooth guiding of the inspection cable during the survey. Fully adjustable to fit most manhole widths.

**PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Guide Pulley</td>
<td>TRP01</td>
</tr>
</tbody>
</table>

**BRICK EGG STABILISER**

**IMPROVES CRAWLER STABILITY IN SPECIFIC CONDITIONS**

A simple quick fit to Mini-Cam’s Proteus CRP300 crawler, the BEP300 stops the crawler from rolling over during inspections in pipes with an egg shaped profile.

**PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick Egg Stabiliser</td>
<td>BEP300</td>
</tr>
</tbody>
</table>

**CAMERA ELEVATION PLATFORM**

**INCREASE INSPECTION CAPABILITIES IN LARGE DIAMETER PIPES**

This telescopic elevator quickly attaches to the Proteus CRP300 Crawler and can be manually moved up or down to increase inspection capabilities in pipes up to 2000mm. Interface for cameras and auxiliary lights.

**PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Elevation Platform</td>
<td>CEP300</td>
</tr>
</tbody>
</table>

**CRAWLER CAMERA EXTENDER**

**EXTENDS THE CRAWLER CAMERA POSITION 100MM FORWARDS**

The Crawler Camera Extender moves the camera position 100 millimetres forward, extending the camera beyond the crawler. The camera positioned 90° downwards now provides a view of the invert of the pipe, not the crawler.

**PRODUCT DETAILS**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Crawler Camera Extender</td>
<td>CCE01</td>
</tr>
</tbody>
</table>
## SPECIFICATIONS - PROTEUS CRAWLERS

<table>
<thead>
<tr>
<th>CRP300</th>
<th>CRP150</th>
<th>CRP140</th>
<th>CRP90</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pipe Diameter</strong></td>
<td><strong>mm</strong></td>
<td><strong>inches</strong></td>
<td><strong>mm</strong></td>
</tr>
<tr>
<td>300 - 1000</td>
<td>12 - 40</td>
<td>300 - 1000</td>
<td>12 - 40</td>
</tr>
<tr>
<td>150 - 600</td>
<td>6 - 24</td>
<td>150 - 600</td>
<td>6 - 24</td>
</tr>
<tr>
<td>90 - 300</td>
<td>3.5 - 12</td>
<td>90 - 300</td>
<td>3.5 - 12</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td><strong>32 kg (66lb)</strong></td>
<td><strong>9.25 kg (20.3lb)</strong></td>
<td><strong>TBC</strong></td>
</tr>
<tr>
<td><strong>Pressure Depth Rating</strong></td>
<td><strong>1 bar (14.5psi)</strong></td>
<td><strong>1 bar (14.5psi)</strong></td>
<td><strong>1 bar (14.5psi)</strong></td>
</tr>
</tbody>
</table>

**Quick Change Wheel Lock**: YES
**Built-in Elevator Motorised**: Manual
**Multi-Frequency Sonde Transmitter**: YES

**Inclination Sensor**: YES
**Flexible Rear Connector**: OPTIONAL

**Dimensions (L x W x H)**:
- **CRP300**: 470 x 233 x 195 mm (18.5 x 9.1 x 7.6 inches)
- **CRP150**: 307 x 133 x 110 mm (12 x 5.2 x 4.3 inches)
- **CRP140**: 386 x 133 x 108 mm (15.1 x 5.2 x 4.2 inches)
- **CRP90**: 296 x 87 x 72 mm (11.6 x 3.4 x 2.8 inches)

**ATEX Zone 2 Certified**: OPTIONAL
**Operating System**: AXA 10/24 V 9 (8pin)
**Screen**: Daylight Viewable

**Interface**: RS232, USB 2.0
**External Storage**: Internal Solid State
**File Format**: MPEG-4 / JPEG Steills

**Weight**: 62 x 52 x 52mm (2.4 x 2.0 x 2.0 inches)
**Power Consumption**: 6W
**Dimensions (L x W x H)**: 62 x 52 x 52mm (2.4 x 2.0 x 2.0 inches)
**Weight**: 0.25kg (0.55lb)

**Self Levelling Axial**: YES
**Pan & Rotate**: YES

**CRAWLER CONTROL UNIT**

**Imager**: 1/4" colour CCD with DSP (Digital Signal Processor)
**Effective Pixels**: 512 x 582
**Resolution**: 720 TVL
**Sensitivity**: < 1.0 lux
**Aperture/Field of View**: F2.5 / 75°
**Image Orientation**: Auto-levelling
**Dimensions**: 220 x 4 x 45 mm (8 x 0.1 x 1.75 inches)

**Weight**: 0.637kg (1.33lb)
**Illumination System**: LED
**Illumination Intensity**: Adjustable
- To 14.5 lux at 1500mm

**Pressure Depth Rating**: 1 bar (14.5psi)
**Construction Stainless Steel
**Pipe Compatibility**: 50mm (2") and up
**Pipe Adaptor Kit**: 3" / 4", 6" / 8" Can be

**Dimensions (L x W x H)**:
- **CAM025**: 33 kHz / 512 Hz / 640 Hz
- **CAM026**: 33 kHz / 512 Hz / 640 Hz

**Weight**: 0.864kg (1.90lb)

**Sonde**: 33 kHz / 512 Hz / 640 Hz
**Pipe Adaptor Kit**: 3" / 4", 6" / 8"

**Dimensions (L x W x H)**:
- **ALN300**: 220 x 4 x 41 mm (8.6 x 1.6 x 1.6 inches)
- **CAM025**: 120 x 74 x 74mm (4.7 x 2.9in x 2.9in)
- **CAM026**: 120 x 74 x 74mm (4.7 x 2.9in x 2.9in)

**Weight**: 0.617kg (1.36lb)

**Imager**: 1/4" colour CCD with DSP (Digital Signal Processor)
**Effective Pixels**: 512 x 582
**Resolution**: 720 TVL
**Sensitivity**: < 1.0 lux
**Aperture/Field of View**: F2.5 / 75°
**Image Orientation**: Auto-levelling
**Dimensions**: 120 x 74 x 74mm (4.7 x 2.9in x 2.9in)

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**Illumination System**: LED
**Illumination Intensity**: Adjustable
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**Pressure Depth Rating**: 1 bar (14.5psi)
**Construction Aluminium / Stainless Steel
**Pipe Compatibility**: 6" / 8" Skids
**Pipe Adaptor Kit**: 3" / 4", 6" / 8"

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**Weight**: 0.617kg (1.36lb)

### All cameras (except CAM027) above are available in ATEX ZONE 2 approved

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