

All Terrain Wheels

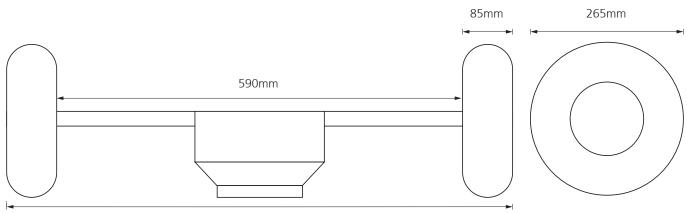
The All Terrain Wheel attachment provides better stability for the user when rolling a coiler through rocks, grass, woodland, mud, and pavement. Sturdy construction, portable and easy-to-store. Quick and easy to attach and remove, no tools required.

Compatibility



| Width | 860mm |
|--------|-------|
| Depth | 265mm |
| Height | 265mm |
| Weight | 1.5kg |





860mm



Pneumatic Wheels

Unattached



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ACR350/500

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Automatic Cable Reel

Experience powered winding in both directions! Developed for the CCTV Inspection Van market, the ACR500 large capacity reel gives you an impressive 500 metres of inspection capability.

Fitted with 500 metres of high strength, Kevlar reinforced inspection cable, ultra-smooth operation is provided by the powerful, three phase motor and cable layering mechanism, specially designed for uninterrupted, tangle free pay-out and re-winding. A clear safety screen prevents contact with the cable whilst coiling, and for additional safety there's a rigid lid and an emergency motor stop button.



Compatibility



Operation is controlled using the hand-held Bluetooth® joystick remote controller (included) which is also capable of controlling camera and crawler functions, or use the ACR500 control panel buttons in conjunction with the dedicated keys and intuitive on-screen display on the Proteus CCU.

Technical Data

ACR350

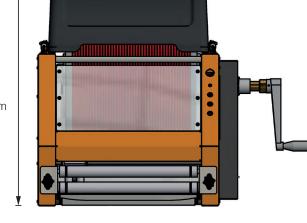
| 350m |
|-------------------|
| 6.5mm |
| 660 x 390 x 652mm |
| 90 - 264 VAC |
| 600W |
| IP45 |
| 42kg (99lb) |
| RJB Joystick |
| VGP350 (Optional) |
| |

ACR500

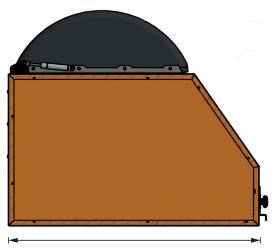
| 500m |
|-------------------|
| 6.5mm |
| 660 x 500 x 652mm |
| 90 - 264 VAC |
| 600W |
| IP45 |
| 55kg (121lb) |
| RJP Joystick |
| VGP500 (included) |
| |

Automatic Cable Reel

652mm



ACR350- 390mm ACR500- 500mm



660mm



Joystick Remote

The Joystick remote control is used to control a crawler and motorised cable reel using Bluetooth® wireless technology. The motorised cable Rreel can be controlled directly without the presence of the control nnit. A handy size and lightweight, the remote control is simple to use and is rechargeable via USB. Supplied with full instructions.



Motor Stop Button Additional safety of an instant stop

Additional safety of an instant stop button on the front right hand side of the machine.



Van Guide Pulley

Reduces friction and provides additional guidance for the cable when paying out and rewinding.

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ALB300/ALN300



Auxiliary Light

Stainless steel housing features three high powered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lens.

Compatibility







Technical Data

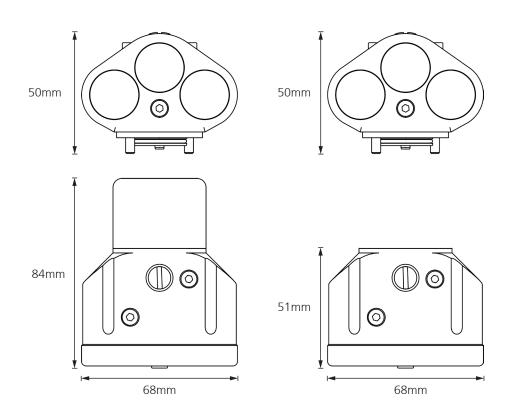
ALN300

| Pressure Depth Rating | 1 bar (14.50psi) |
|-----------------------|------------------------|
| Dimensions | 51 x 68 x 50mm |
| Weight | 225g |
| Backeye Camera | NO |
| Compatability | Proteus / Proteus Lite |

ALB300

| Pressure Depth Rating | 1 bar (14.50psi) |
|-----------------------|------------------------|
| Dimensions | 84 x 68 x 50mm |
| Weight | 306g |
| Backeye Camera | YES |
| Compatability | Proteus / Proteus Lite |

Auxiliary Light





ALN300

Stainless steel housing features 4 high powered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lens.



ALSO available in ATEX ZONE 1 Stainless steel housing features 4 high powered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lens.



ALB300 - Rear View Optional back-eye Camera to capture images from behind the crawler, invaluable for reverse steering.

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APB300/APN300

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LED Pods

Ultra-bright LED auxiliary light head adds extra illumination for inspections in larger pipe diameters. The twin light pods have manually adjustable arms to give full horizontal 180° rotation and 90° upward rotation. The colour rear view backeye camera aids crawler reversing.

Compatibility





Technical Data

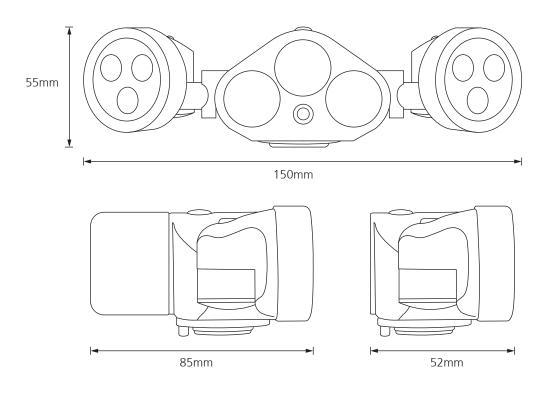
APB300

| Pipe Diameter | 300mm upwards |
|-----------------------|-------------------|
| Illumination System | 9 High Power LEDs |
| Backeye Camera | YES |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 85 x 150 x 55mm |
| Weight | 480g |

APN300

| Pipe Diameter | 300mm upwards |
|-----------------------|-------------------|
| Illumination System | 9 High Power LEDs |
| Backeye Camera | NO |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 52 x 150 x 55mm |
| Weight | 400g |
| | |

LED Pods





Also available in ATEX ZONE 1 ATEX LED Pods are engineered, built and tested for safe use in some of the most dangerour situations without compromising any features of regular



Rear View Optional back-eye camera to capture images from behind the crawler.



LED Lights

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LED Pods.



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BEP140/150/300

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Brick Egg Stabalizer

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. Exclusively compatible witH Minicam's Proteus CRP300, CPL150 and CRP140 crawlers

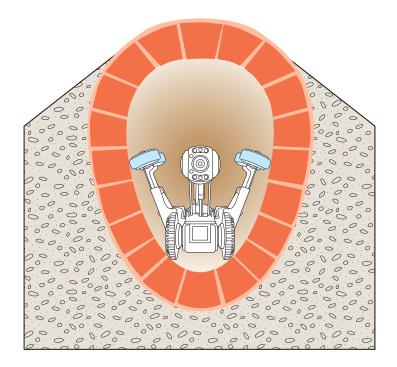


Compatibility



| | BEP140/150 | BEP300 |
|---------------|------------|---------------|
| Compatibility | CRP140 | CRP300 |
| Length | 375mm | 450mm |
| Width | 180mm | 190mm |
| Height | 210mm | 220mm |
| Weight | 2.05kg | 2.95kg |

Brick Egg Stabalizer





Rollers



Unattached



Attached to Crawler

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CGP200/300



Cable Reel Guide

Reduces friction and provides additional guidance for the cable when paying out and rewinding. Also brushes and cleans the cable when rewinding. Exclusively compatible with Minicam motorised cable reels and manual cable reels to fit 300 metre and 200 metre reels.



Compatibility



| | CGP200 | CGB300 |
|---------------|---------------|---------------|
| Compatibility | RAP200/RMP200 | RAP300/RMP300 |
| Length | 540mm | 540mm |
| Width | 370mm | 490mm |
| Height | 175mm | 175mm |
| Weight | 2.9kg | 3.5kg |

Cable Reel Guide

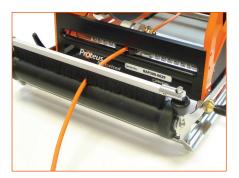




Unattached



Attached



Close-up

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Self Levelling Axial Camera

Stainless steel housing features four high powered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lens.

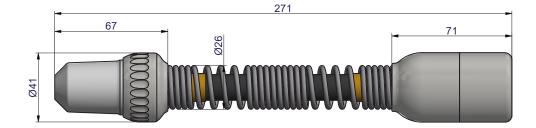


Compatibility



| Effective Pixels | 512 x 582 |
|--------------------------|--------------------|
| Camera Sensor | 470 HTVL |
| Sensitivity | <1.0 Lux |
| Aperture / Field of View | F2.5/75° |
| Illumination Intensity | 12.5k Lux at 150mm |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 271 x 41 x 41mm |
| Weight | 620g |
| | |

Self Levelling Axial Camera







Front View



Rear View



Camera Head

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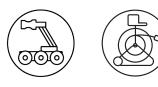


Pan & Rotate Camera

Continuous 360° rotation and +/-135° pan. Dual clusters of 3 high powered ultra-bright LED lights.

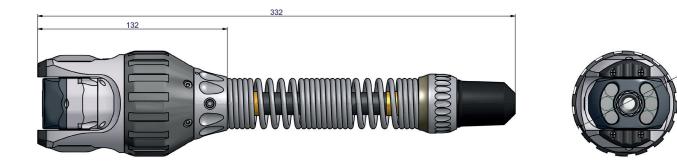


Compatibility



| Effective Pixels | 512 x 582 |
|------------------------|--------------------|
| Camera Sensor | 470 HTVL |
| Sensitivity | <1.0 Lux |
| Aperture/Field of View | F2.5/75° |
| Illumination Intensity | 12.5k Lux at 150mm |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 120 x 73 x 73mm |
| Weight | 861g |
| | |

Pan & Rotate Camera





Front View



Rear View



Ø13

Camera Head

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Axial Camera

Robust camera head with triple clusters of three high powered ultra-bright LED lights for optimum illumination and a scratch resistant sapphire glass to protect the lens.

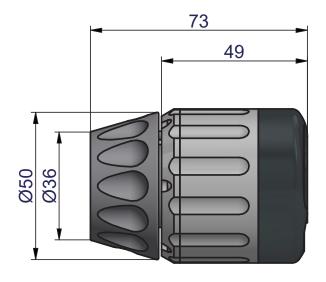


Compatibility



| Effective Pixels | 512 x 582 |
|------------------------|--------------------|
| Camera Sensor | 470 HTVL |
| Sensitivity | <1.0 Lux |
| Aperture/Field of View | F2.5/75° |
| Illumination Intensity | 12.5k Lux at 150mm |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 73 x 52 x 52mm |
| Weight | 251g |
| | |

Axial Camera







Front View



Side View



Rear View

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Camera Elevation Platform

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.

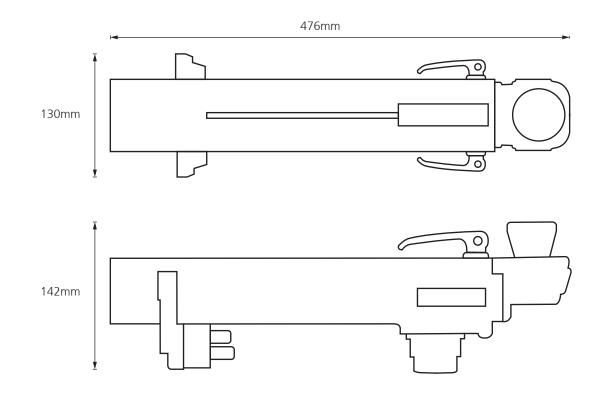
Compatibility

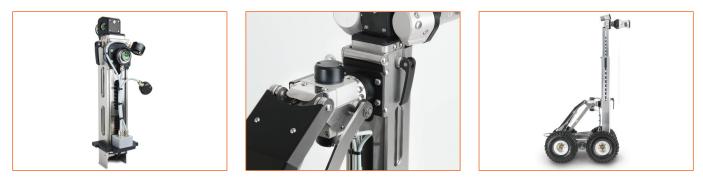
Up To 2200 mm



| Connections | Camera connections (front) Lifter connection (rear) 2x additional lamp connections (side) 1x additional lamp connection with Backeye Camera (top connector) | |
|---|--|--|
| Top camera position (pipe centre) using with pneumatic balloon wheels | 1090mm | |
| Mid camera position (pipe centre) with extended wheels | Approx 830mm | |
| Low camera position (pipe centre) with pnuematic wheels | 565mm | |
| Dimensions | 142 x 130 x 476mm | |
| Weight | 5.7kg | |

Camera Elevation Platform





Unattached

Fixing



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Crawler Camera Extender

Minicam's Proteus crawler camera extender moves the camera position 100mm forward.Your 90° downward views now show the invert of the pipe and not the crawler.

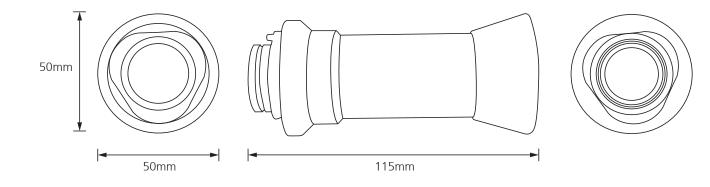
Built to Minicam's exacting standards, the camera extender is quick and easy to attach with a simple push, rotate and lock.



Compatibility



| Dimesions (L x W x H) | 115 x 50 x 50mm |
|--------------------------|-----------------|
| Weight | 302g |
| Temperature Range | -20°C ~ +50°C |
| Environmental Protection | Water Resistant |





Rear Attachment



Front Attachment



Extended View

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Floatation Raft

Designed for today's stringent health and safety policies. Small enough to be be lowered down most common sizes of manhole cover, eliminating the need for man-entry.

Three extremely powerful angled auxiliary LED light modules provide enough light to illuminate pipes in excess of 1000mm, while the compact design allows inspection capability 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 retrievial, and the factory tested floatation plate ensures the device is perfectly balanced to eliminate rolling.

Simply plug and play* with an existing Proteus System



Compatibility

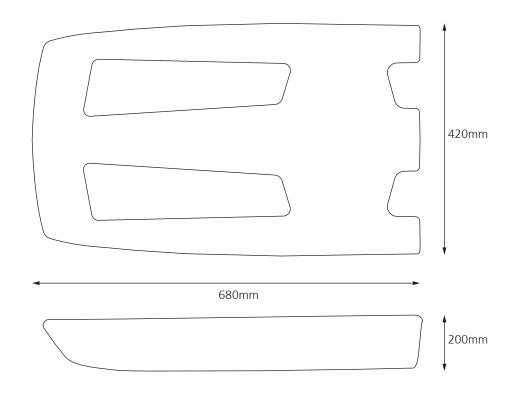


Technical Data

| Dimensions | 680 x 420 x 200mm |
|------------|-------------------|
| Weight | 5.8kg 12.7LB |

*Additional software may be required

Floatation Raft





Auxiliary Lights Powerful LED auxiliary lights provide

visibility during inspection.

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Pan, Rotate and Laser Camera

Continuous 360° rotation and +/-135° pan. Integral distance sensor and visible lasers to enable accurate pipe diameter, defect and object measurement.



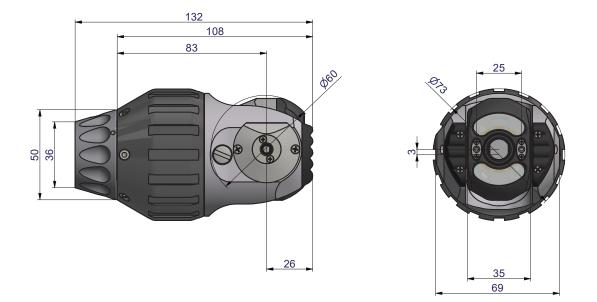
Compatibility





| Pipe Diameter Measurement Range | 90 - 600mm |
|---------------------------------|--------------------|
| Aligned Laser Spacing | 25mm |
| Camera Sensor | 470 HTVL |
| Sensitivity | <1.0 Lux |
| Apeture/Field of view | F2.5/75° |
| Maximum Illumination Intensity | 12.5k Lux at 150mm |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 132 x 73 x 73mm |
| Weight | 865g |

Pan, Rotate and Laser Camera





Front View



Side View



CAM026L on CPL150S Crawler

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Pan, Rotate, Zoom and Laser Camera

Optical and digital zoom function to allow distant objects to be viewed in much greater detail. Continuous 360° rotation and +/-135° pan. Integral distance sensor and twin lasers to enable accurate pipe diameter, defect and object measurement.

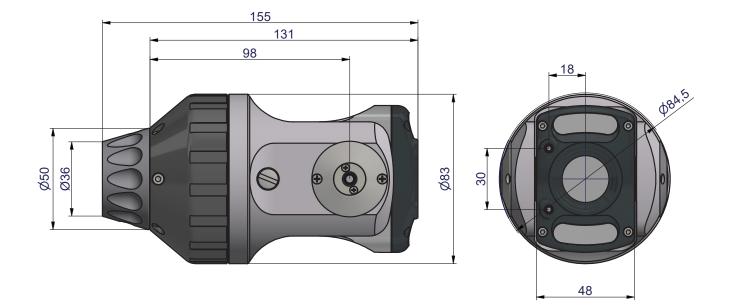


Compatibility



| Pipe Diameter Measurement Range | 90 - 600mm |
|---------------------------------|--------------------------|
| Aligned Laser Spacing | 30mm |
| Camera Sensor | 800 HTVL |
| Sensitivity | <1.0 Lux |
| Apeture/Field of view | F1.8 - F2.9 / 46° - 4.6° |
| Maximum Illumination Intensity | 12.5k Lux at 150mm |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 155 x 84.5 x 84.5mm |
| Weight | 1148g |

Pan, Rotate, Zoom and Laser Camera





Front View



Rear View



Side View

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Pan, Rotate and Laser Camera

With a diameter of 49mm and continuous 360° rotation and +/-135° pan the CAM050 offers robust versatility, perfect for small diameter pipe applications.

Integral distance sensor and twin lasers enable accurate pipe diameter, defect, and object measurements to ensure no survey is too big for this small camera.



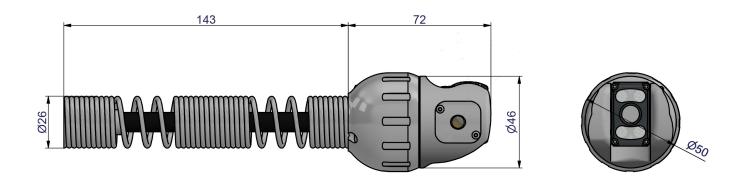
Compatibility



CAM050 is shipped with Minicam's SOLOPro+50 pipeline video inspection system or optionally with our standard SOLOPro+ configuration, available in multiple rod lengths and with a range of options. The CAM050 is also compatible with our LAT150, mainline to lateral inspection system.

| Construction | Stainless Steel / Aluminium | |
|--------------------------|---|--|
| Pipe Compatibility | Skids to suit 100mm (4î) and 150mm (6î) Pipes | |
| Pipe Sizing | Greater than 60mm (2.36î) | |
| Aperture / Field of view | F2.5 / 75∞ | |
| Laser Spacing | Dual aligned front facing / single side | |
| Imager | CMOS Colour Camera | |
| Effective pixels | 976 x 496 | |
| Camera Sensor | 740 TVL | |
| Zoom | N-A | |
| Focus | Manual variable | |
| Image orientation | Auto-levelling | |
| Illumination system | 4 LEDs | |
| Luminous Intensity | Adjustable (to 12.5k Lux at 150mm) | |
| Sensitivity | < 1.0 Lux | |
| Luminous Intensity | 480 lmís | |
| Weight | 570g | |
| Size | 50mm diameter | |
| | | |

Pan, Rotate and Laser Camera

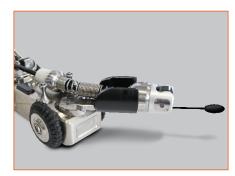




In Use



Coiler



Crawler

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MAN-UP-KEY

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ManUp Key

The revolutionary innovation for raising manholesThe current, traditional techniques of releasing stubborn manhole covers have shown to have health and saftey implications and can be time consuming.

The ManUp Key provides a one-man solution to allow stuck manholes to be released without chiselling or hammering. Its patented slide hammer exerts a momentary upward force capable of releasing stuck, jammed and rusted chamber covers, quickly and efficiently*.



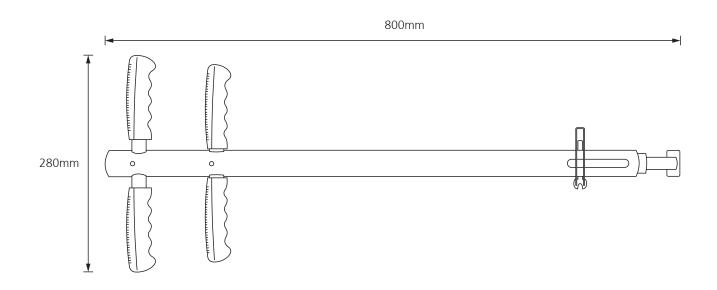
Technical Data

| Dimensions (L x W x H) | 800 x 295 x 35mm |
|------------------------|----------------------|
| Weight | 6.3kg (13.9lbs) |
| Optional | Choice of 6 Key Tips |

*Please Note:

The ManUp Key is an aid for releasing the majority of stubborn manholes. In certain instances of heavily ceased manholes, the use of additional tools and equipment may be required.

ManUp Key





Handle

Accessory Case and Tips

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RMP200/300

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Manual Cable Reel

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

Smooth pay-out and re-winding is performance enhanced by the cable layering mechanisim and durable heavy duty turning handle. Minicam's specialised crawler connector provides a waterproof sresistenat, and there's a removable drip tray for easy cleaning and maintenance.



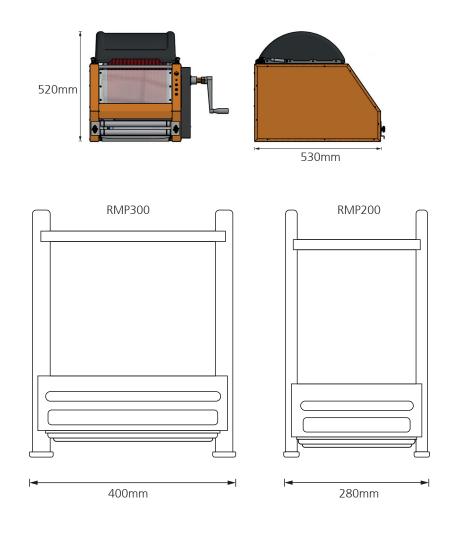
The reels are available in 3 sizes small 100m, mid-size 250m and large 350m reels. The small and mid-size reels can be fitted to our Portable Storage Trolley (PTP01), and the large reel is ideal for being installed as part of our Custom Van Fit Service.



Compatibility

| | RMP200 | RMP300 |
|---------------------------------|-------------------|-------------------|
| Cable Length | 250 metres | 350 metres |
| Dimensions (L x W x H) | 530 x 280 x 520mm | 530 x 400 x 520mm |
| Weight | 25kg | 35kg |
| Environmental Protection | Splash Proof | Splash Proof |

Manual Cable Reel





RMP300



RMP200

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Portable Storage Trolley - Proteus Lite

Eliminate health hazardous lifting, and time consuming carrying to your remote work site. Engineered to allow for the mobile operation of your Proteus Lite 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; control unit, reel, battery pack and accessory case. Simply wheel the unit to your location, connect a camera and crawler, and you're up and running in minutes.

The added convenience of Minicam's unique Proteus Power Pack means 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.

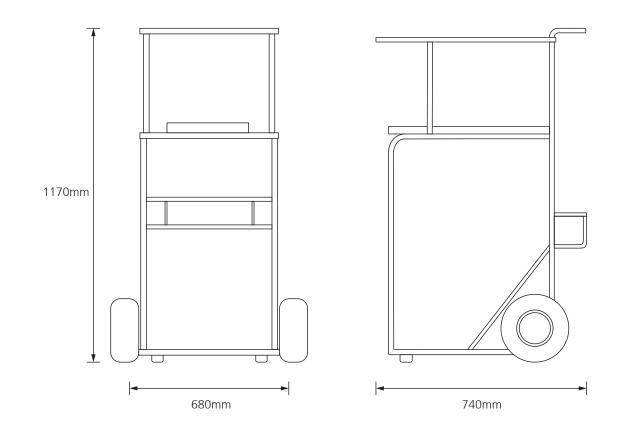
Please Note: Equipment shown on trolley NOT included with PTP04 *Battery life dependant on operating conditions.

Compatibility



| Construction | Proteus Lite |
|------------------------|--------------------|
| Dimensions (L x W x H) | 740 x 680 x 1170mm |
| Weight (unladen) | 16.4kg |

Portable Storage Trolley - Proteus Lite





Battery Pack Holder

No need to rely on vehicle or mains power. Minicam's unique Proteus Power Pack enables pipleline inspections in the most remost locations with in excess of 5 hours of inspection time.



Tool and Accessory Storage



Robust Wheels for Portability

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PTP01/02

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Portable Storage Trolley

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; control unit, reel, battery pack and accessory case. Simply wheel the unit to your location, connect a camera and crawler, and you're up and running in minutes.

The added convenience of Minicam's unique Proteus Power Pack, means 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.

Please Note: Equipment shown on trolley NOT included with PTP01/02 *Battery life dependant on operating conditions..

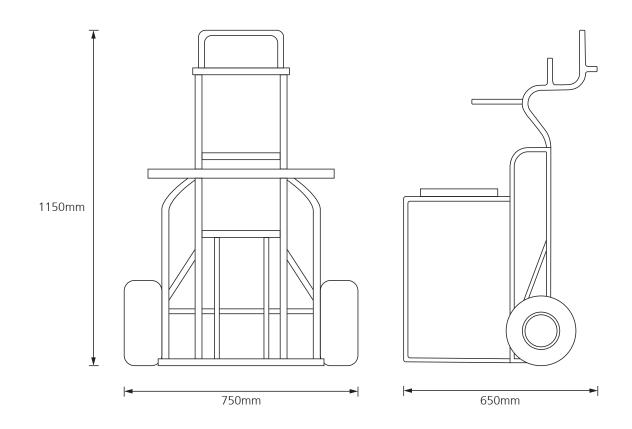
Compatibility



<image>

| | PTP01 | PTP02 |
|---------------|--------------------|--------------------|
| Compatibility | RMP100/RMP200 | RAP200 |
| Dimensions | 650 x 1150 x 750mm | 650 x 1150 x 750mm |
| Weight | 9.75kg | 9.75kg |

Portable Storage Trolley





Battery Pack Holdert

No need to rely on vehicle or mains power. Minicam's unique Proteu sPower Pack enables pipleline inspections in the most remost locations with in excess of 5 hours of inspection time.



Fixing Plate



Trolley Without Equipment

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Inline Camera Adaptor

Invaluable for hand-held walk-throughs and service department usage .

A useful accessory to have in your inspection kit. The Proteus Inline Camera Adaptor allows the user to connect a camera to the CCU without the need for a crawler. Precision engineered from high specification materials, this hand-held walk-throughs, and for use in a service department.

The PCA01 features dual housings to allow 2 auxiliary lights to be connected.

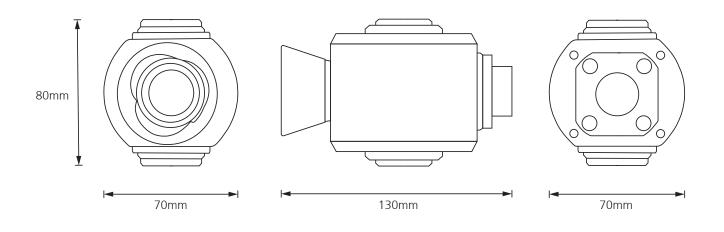


Compatibility



| Compatibility | Proteus System |
|------------------------|-------------------------------|
| Dimensions (L x W x H) | 130 x 70 x 80mm |
| Weight | 790g |
| Features | Dual Auxiliary Light Housings |

Inline Camera Adaptor





Front View



Top View



Rear View

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PKP01/PKP02EX

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Pressure Kit

ressurisation 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.



Compatibility



| | PKP01 | PKP02EX |
|---------------|--------------|----------------------------|
| Compatability | Standard CO2 | ATEX Nitrogen Pressure Kit |

Pressure Kit





Assembled

Full Kit in storage box

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LAS-PRO-CAM026

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ProLaser

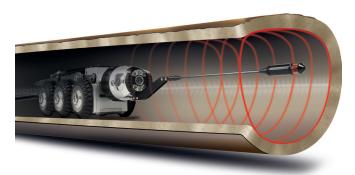
Pinpoint accurate laser profiling of pipes and sewers. ProLaser is the perfect partner for any CCTV inspection system and provides accurate analysis of the true pipe condition prior to and after rehabilitation.

Data Analysis and Delivery

The Minicam Laser profiler has been designed to provide accurate and repeatable pipe geometry for many pipeline conditions. Simply attach the device to your CAM026 and WinCan will do the rest! All results are automatically calculated and can be delivered via WinCan. The WinCan software generates the report automatically, including diameter, ovality, capacity and also provides 3-dimensional XYZ-data.

Why do you need a pipe profiler?

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.

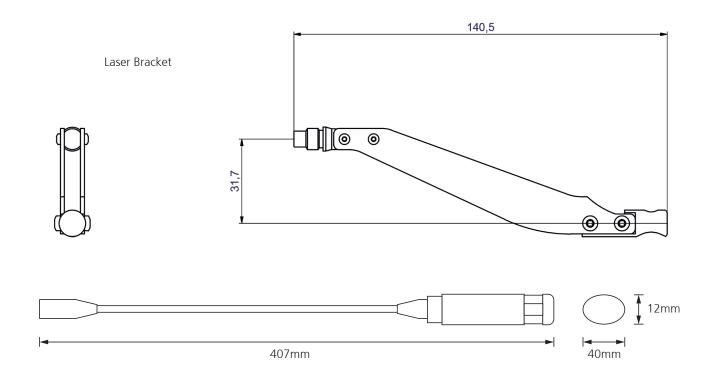


Compatibility



| Dimensions (L x W x H) | 407 x 40 x 12mm |
|------------------------|-----------------|
| Weight | 0.16kg (0.63lb) |

ProLaser





Laser

Storage Case

ProLaser fitted to crawler

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Proteus Power

Proteus Power provides compact, portable power with 5 hours inspection time... where will it take you? No need to rely on vehicle or mains power. Minicam'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.

*Battery life dependant on operating conditions.

Proteus Pérver Prot-doo

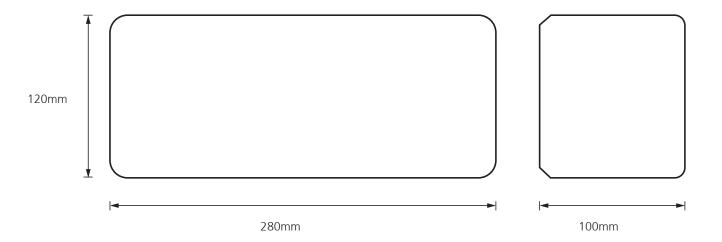
Compatibility



- Output short circuit protected
- LED Charge status indication
- LED battery fault indication
- Proteus battery state indication
- Proteus auto power down on low battery

| Compatability | Proteus System |
|------------------------|-------------------|
| Dimensions (L x W x H) | 280 x 100 x 120mm |
| Weight | 4kg (8.80lb) |

Proteus Power





Battery Bag

Optional arry-bag ideal for storage of the battery pack. The easy access and velcro fasteners keep the battery secure while in use. The bag has an adjustable carry strap.



Battery Pack with Proteus CCU



Connectors and LED status lights

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RBP01/RBP02

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Reel Bracket

This lightweight tubular bracket utilises the cable reel as a holder for the CCU (control unit). Quick and easy to attach, using the bolts and washers supplied, the bracket holds the control unit firmly in place in a comfortable working position for the user.

The Reel Bracket is available in 2 sizes, exclusively compatible with Proteus 200 and 300metre Motorised and Manual cable reels.

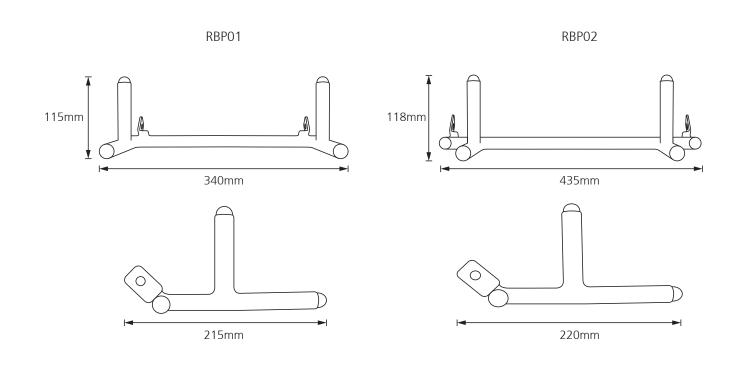


Compatibility



| | RBP01 | RBP02 |
|----------------------|----------------------|----------------------|
| Compatability | 200m Reel Proteus | 300m Reel Proteus |
| Dimensions L x W x H | 340 x 215 x 115mm | 435 x 220 x 118 |
| Weight | 648g | 695g |
| Fixings | Bolts & Washers | Bolts & Washers |

Reel Bracket





In Use

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VGP200/300/350/500

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Van Guide Pulley

Reduces friction and provides additional guidance for the cable when paying out and rewinding. For use with Minicam Motorised Cable Reels and Manual Cable Reels.

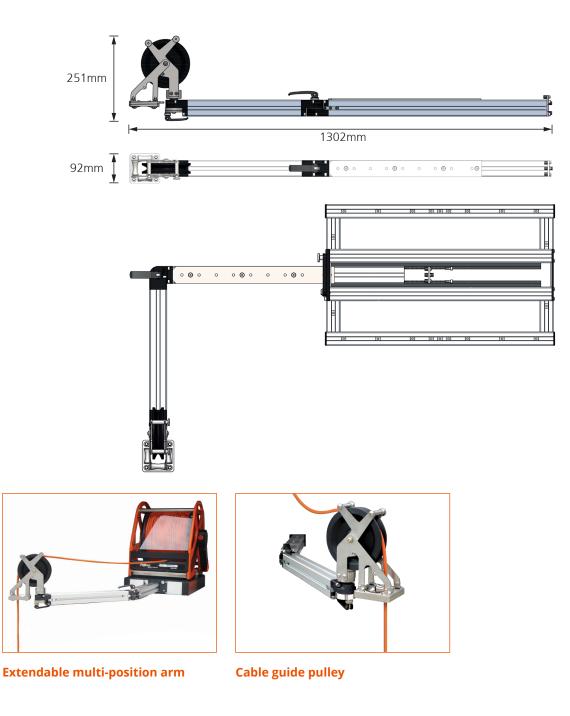


Compatibility



| | Compatability |
|--------|---------------|
| VGP200 | RMP/RAP200 |
| VGP300 | RMP/RAP300 |
| VGP350 | ACR350 |
| VGP500 | ACR500 |

Van Guide Pulley



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TTC01

CCU Tilting Table

Quick and easy to attach, the Tilting Table enables virtually unlimited manoeuvrability of the control unit position, to give the user customisable screen viewing and keyboard positions.

The table can be tilted 35° forwards and 75° backwards, with a full unobstructed 360° horizontal rotation. No tools required, the tilt table is simply attached using the adjustable clamps.

TTC01 is exclusively compatible with Minicam's Proteus and SOLOPro+ Control Units and Coiler/Compatible Coiler frames.

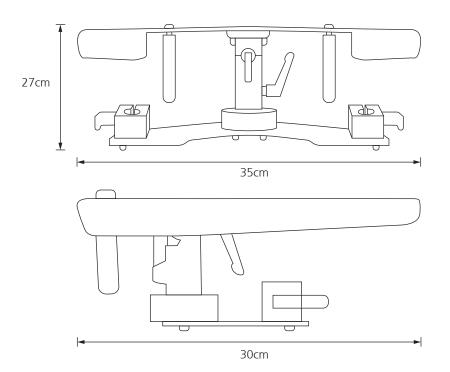


Compatibility



| Dimensions (L x W x H) | 35 x 30 x 27cm |
|------------------------|-----------------------------------|
| Weight | 3kg |
| Compatability | Proteus / Proteus Lite / SOLOPro+ |

CCU Tilting Table





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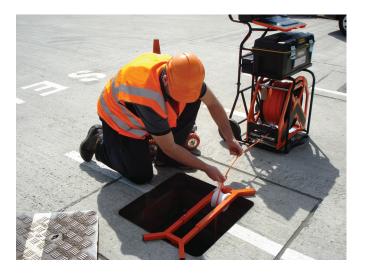
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Manhole Top Roller

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

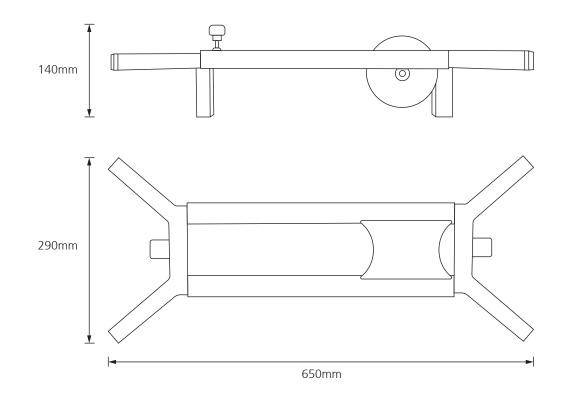


Compatibility



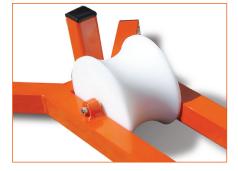
| Dimensions L x W x H | 650 x 290 x 140mm |
|----------------------|-------------------|
| Weight | 4.45kg |
| Compatability | Proteus |

Manhole Top Roller





Adjustability Ability to extend the length of the Top Roller to be able to fit across most



Roller The roller helps prevent kinks in the cable by allowing a smooth payout and rewinding.

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manhole sizes.



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Portable Storage Trolley

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; control unit, reel, battery pack and accessory case. Simply wheel the unit to your location, connect a camera and crawler, and you're up and running in minutes.

The added convenience of Minicam's unique Proteus Power Pack (see Proteus Power Pack sheet), means 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.

Please Note: Equipment shown on trolley NOT included with PTP03 *Battery life dependant on operating conditions.

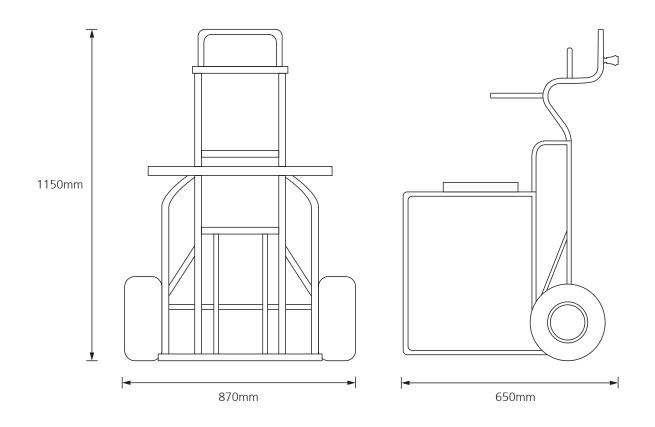
Compatibility



<image>

| Compatibility | RMP300/RAP300 |
|---------------|--------------------|
| Dimensions | 650 x 1150 x 870mm |
| Weight | 10.5kg |

Portable Storage Trolley





Battery Pack in holder

No need to rely on vehicle or mains power. Minicam's unique ProteusPower Pack enables pipleline inspections in the most remost locations with in excess of 5 hours of inspection time.



Fixing Plate



Rear View

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Proteus Crawler

CRP90's compact size allows it to easily survey 100mm pipes. The motorised elevator enables the camera to be centred in pipes of up to 225mm diameter.

ALL STANDARD FEATURES:

- Continuous monitoring of speed, internal pressure, inclination and temperature
- Dual Axis Inclination Sensor
- Single Auxiliary Light/Backeye Mounting
- Multi-Frequency Sonde 33kHz / 512Hz / 640Hz
- Steerable High Torque
- All-Wheel Drive
- Robust Housing
- 1 bar Pressure Tight
- Quick Change Wheel Lock
- In-Built Lowering Arm
- Heavy Duty Camera Connector
- Protective Front Connector Cap
- Protective Rear Connector Cap
- Lowering Rope
- Tools

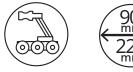
PLUS

- 6x QRWX60SR 60mm Rubber Wheels
- Motorised Elevator Range 40-77mm
- Articulate 'Knuckle' Connector

OPTIONAL

- Carbide Wheels
- High Grip Wheels

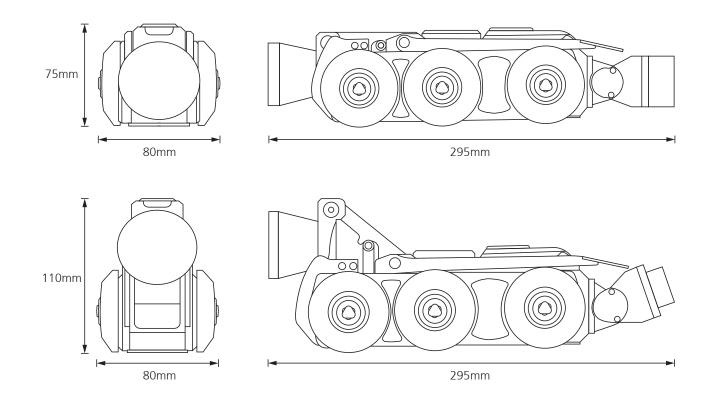
Compatibility



| Pipe Sizes | 90mm - 225mm |
|------------|--------------|
| Weight | 4.50kg |



Proteus Crawler





Soft Black Rubber Wheels

Rich black, soft rubber tyres developed to provide improved traction in regular pipes.

Available in 4 sizes and Wide Axle. Other Performance Wheels available.

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Proteus Crawler

For pipes from 140mm (even in a relined pipe) up to 600mm, with the optional PCC01 Crawler Cradle it can even be used in pipes up to 1000mm.

ALL STANDARD FEATURES:

- Continuous monitoring of speed, internal pressure, inclination and temperature
- Dual Axis Inclination Sensor
- Single Auxiliary Light/Backeye Mounting
- Multi-Frequency Sonde 33kHz / 512Hz / 640Hz
- Steerable High Torque
- All-Wheel Drive
- Robust Housing
- 1 bar Pressure Tight
- Quick Change Wheel Lock
- In-Built Lowering Arm
- Heavy Duty Camera Connector
- Protective Front Connector Cap
- Protective Rear Connector Cap
- Lowering Rope
- Tools

PLUS

- 6x QRWX90SR 90mm Rubber Wheels
- Motorised Elevator Range 54-205mm
- Articulated 'Knuckle' Connector

OPTIONAL

- Carbide Wheels
- High Grip Wheels

Technical Data

| Pipe Sizes | from 140mm - 600mm to 1000mm with PCC01 Crawler Cradle |
|------------|--|
| Weight | 9.5kg |

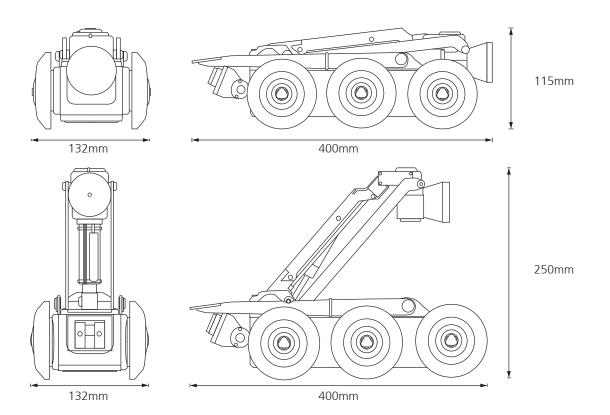


Compatibility





Proteus Crawler





Soft Black Rubber Wheels Rich black, soft rubber tyres developed to provide improved traction in regular pipes.

Available in 4 sizes and Wide Axle.

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CPL150S

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Proteus Lite Crawler

The perfect companion to the RMP250 Reel. Proteus Lite Crawler has the same professional grade quality, reliability and accuract as our mainline Proteus Crawlers.

ALL STANDARD FEATURES:

- Continuous monitoring of speed, internal pressure, inclination and temperature
- Dual Axis Inclination Sensor
- Single Auxiliary Light/Backeye Mounting
- Multi-Frequency Sonde 33kHz / 512Hz / 640Hz
- Steerable High Torque
- All-Wheel Drive
- Robust Housing
- 1 bar Pressure Tight
- Quick Change Wheel Lock
- In-Built Lowering Arm
- Heavy Duty Camera Connector
- Protective Front Connector Cap
- Protective Rear Connector Cap
- Lowering Rope
- Tools

PLUS

- 6x QRWX90SR 90mm Rubber Wheels
- Manual Elevator Rnage 60-112mm
- Heavay Duty Rear Connector

OPTIONAL

- Multi-Frequency Sonde
- Inclination Sensor
- Carbide Wheels
- High Grip Wheels



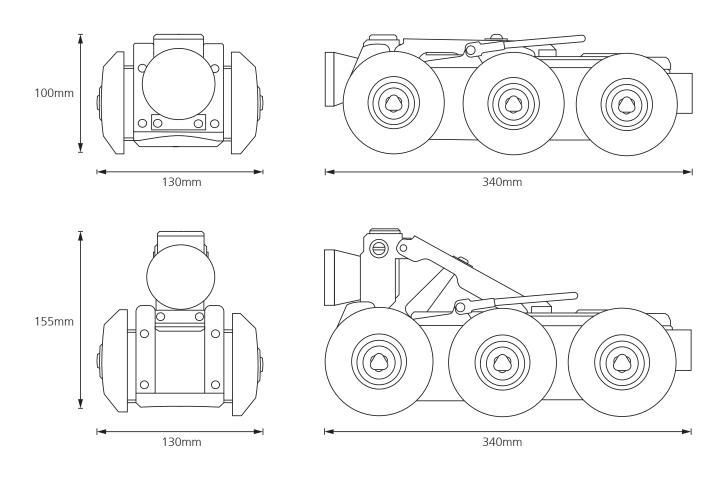
Compatibility





| Pipe Sizes | from 150mm-400mm to 800mm with PCC01 Crawler Cradle |
|------------|---|
| Weight | 9kg |

Proteus Lite Crawler





Soft Black Rubber Wheels

Rich black, soft rubber tyres developed to provide improved traction in regular pipes.

Available in 4 sizes and Wide Axel.

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Proteus Crawler

Designed for larger pipe diameters with high flow rates, this heavy duty crawler makes easy work of inspections in more difficult environments.

ALL STANDARD FEATURES:

- Continuous monitoring of speed, internal pressure, inclination and temperature
- Dual Axis Inclination Sensor
- Single Auxiliary Light/Backeye Mounting
- Multi-Frequency Sonde 33kHz / 512Hz / 640Hz
- Steerable High Torque
- All-Wheel Drive
- Robust Housing
- 1 bar Pressure Tight
- Quick Change Wheel Lock
- In-Built Lowering Arm
- Heavy Duty Camera Connector
- Protective Front Connector Cap
- Protective Rear Connector Cap
- Lowering Rope
- Tools

PLUS

- 6x QRWX140SR 140mm Rubber Wheels
- Motorised Elevator Range 135-398mm
- Heavy Duty Rear Connector

OPTIONAL

• Wide axle Balloon Wheels



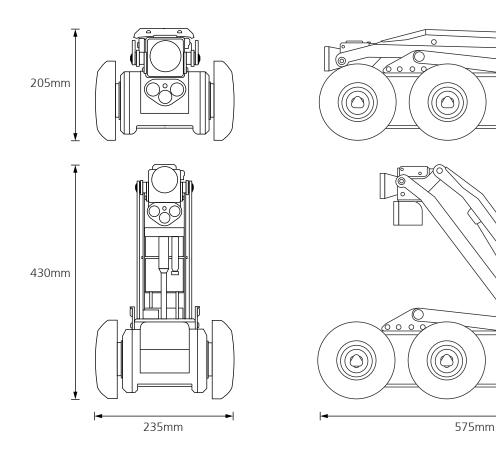
Compatibility





| Pipe Sizes | from 300mm-1000mm to 2200mm with Elevation Platform CEP300 |
|------------|--|
| Weight | 32.0kg |

Proteus Crawler





Soft Black Rubber Wheels Rich black, soft rubber tyres developed to provide improved traction in regular pipes.

Available in 4 sizes and Wide Axle.

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CRP140-ExZ1

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ATEX Crawler

Proteus ATEX Crawlers are 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 Proteus crawlers. The CRP140 ATEX crawler makes working in ZONE 1 and other explosion-risk environments much easier and safer than alternative methods, giving you a clear, sharp eye into the unknown, wihtout introducing risk through use of electronic devices.

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

Compatibility

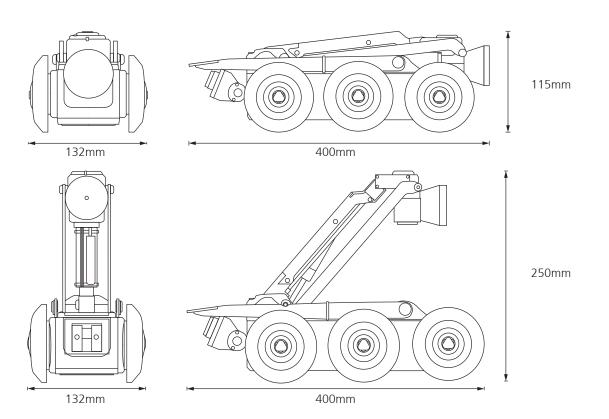




CRP140-ExZ1 shown with optional ATEX Zone1 Crawler Cradle PCC01-ExZ1

| | CRAWLER | | |
|---------------------------------|--|---------------------------------|--------------------|
| Pipe Sizes | from 140mm - 600mm to 1000mm with PCC01 Crawler Cradle | | |
| Weight | 9.5kg | | |
| | | | |
| | CAM028L | | CAM026L |
| Pipe Diameter Measurement Range | 90 - 600mm | Pipe Diameter Measurement Range | 90 - 600mm |
| Aligned Laser Spacing | 30mm | Aligned Laser Spacing | 25mm |
| Camera Sensor | 530 HTVL | Camera Sensor | 470 HTVL |
| Sensitivity | <1.0 Lux | Sensitivity | <1.0 Lux |
| Apeture/Field of view | F1.8 - F2.9 / 46° - 4.6° | Apeture/Field of view | F2.5/75° |
| Maximum Illumination Intensity | 12.5k Lux at 150mm | Maximum Illumination Intensity | 12.5k Lux at 150mm |
| Pressure Depth Rating | 1 bar (14.50psi) | Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 155 x 84.5 x 84.5mm | Dimensions | 132 x 73 x 73mm |
| Weight | 1148g | Weight | 865g |
| | | | |
| | APB300 | | ALB300 |
| Pipe Diameter | 300mm upwards | Pipe Diameter | 300mm upwards |
| Illumination System | 9 High Power LEDs | Illumination System | 9 High Power LEDs |
| Backeye Camera | YES | Backeye Camera | NO |
| Pressure Depth Rating | 1 bar (14.50psi) | Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 85 x 150 x 55mm | Dimensions | 52 x 150 x 55mm |
| Weight | 480g | Weight | 400g |

ATEX Crawler





CAM28L-ExZ1

Optical and digital zoom function to allow distant objects to be viewed in much greater detail. Continuous 360° rotation and 135° pan. Integral distance sensor and twin lasers to enablle accurate pipe diamter, defect and object measurement.



CAM26L-ExZ1

Continuous 360° rotation and +/- 135° pan. Integral distance sensor and visible lasers to enable accurate pipe diameter, defect and object measurement.



ALB300-ExZ1 / APB300-ExZ1 Minicam LED pods and auxiliary lights, with and without backeye are also available in ATEX Zone 1 certified versions.

Cameras, Auxiliary Lights and LED pods shown above are purchased separately (not included with CRP140-ExZ1).

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SYS-SPP-000-ExZ1

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Complete ATEX Push Camera System

SOLOPro+ ATEX systems are engineered, built and tested for safe use in some of the most dangerous situations, without compromising on any of the features and functionality of our regular SOLOPro+ systems.

With ATEX approval these systems make working in Zone 1 and other explosion-risk environments much easier and safer that alternative methods, giving you a clear, sharp eye into the unknown, without introducing risk through the use of electronic devices in explosive atmospheres.

Feature rich, Minicam's CCU210 Control Unit has twin integral joysticks for camera control and crawler manoeuvrability, and an ergonomic soft-touch keypad. User friendly multi-function hot keys control an intuitive on-screen display, to enable quick and accurate navigation of the numerous features which all come as standard on the brain of the SOLOPro+ system.

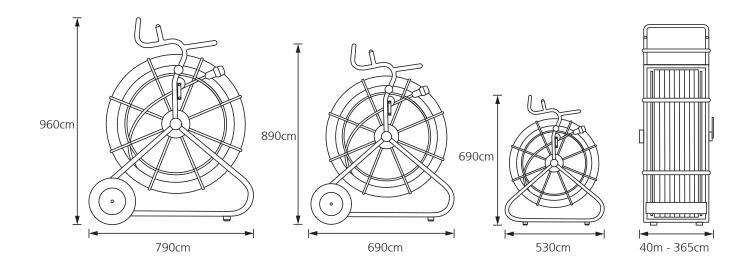


Compatibility



| Construction | Welded Steel | |
|------------------------|-----------------------|--|
| Finish | Powder Coated | |
| Distance Counter Units | Feet, Metres | |
| Controls | Friction Brake | |
| Weight | 40m / 60m / 100m | |
| Sonde | 22kHz / 512Hz / 640Hz | |
| Pressure | Duel Pressure Sensors | |

ATEX Push Camera System





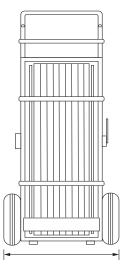
CAM026L-ExZ1

Continuous 360° rotation and +/- pan. Integral distance sensor and visible lasers to enable accurate pipe diameter, defect and object measurement.



CAM025-ExZ1

Stainless steel housing features 4 high powered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lense.





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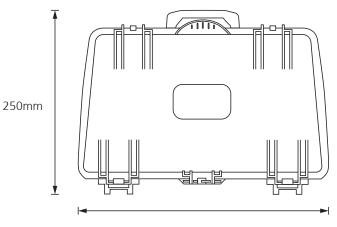


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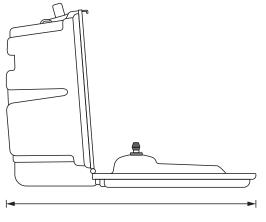
SOLOPro+ Control Unit

Feature rich, Minicam's CCU210 control Unit has an integral joystick for camera control, and an ergonomic soft-touch keypad. User friendly multi-function hot keys control an intuitive on-screen display, to enable quick and accurate navigation of the numerous features, which all come as standard on this brain of SOLOPro+ system. The control unit is shipped with ProPIPE+ and WinCan software pre-installed as standard.





435mm



390mm

| Video Format | PAL | |
|----------------------|---|--|
| Battery | 6 hour Lithium-Ion | |
| Charging | Mains Power (100-240 Vac) or vehicle power (12 or 24 VDC) using supplied adaptors | |
| Display | 8" TFT LDC (800x600 pixels) Sunlight viewable | |
| Keyboard | Full QWERTY style membrane keyboard with arrow keys for navigation and seperate joystick for camera control | |
| Video Recording | MPEG4 (WinCan compatible) | |
| Image Capture | JPEG (live or from recorded video) | |
| Text Overlay | 16 page (selectable text and colours) | |
| Internal Memory | 32GB (expandable to 128GB) | |
| External Media | SDHC and USB 2.0 | |
| Language Support | Multiple | |
| Connections | Power and Coiler | |
| Environmental Rating | IP54 | |
| Weight | 3.85kg (8.5lb) | |
| Dimensions | 435mm x 250mm x 140mm | |

SOLOPro+ Control Unit



Illumination

Increase or decrease the intusity of the ultra-bright camera LEDs.



Survey Features

Access embedded repoting software to create detailed on-site reports.



SONDE Settings

Set the freuency of the SONDE transmitter to 33kHz, 512Hz or 640Hz.



Hot Keys

User friendly, multi-function hot keys control an intuitive on-screen display of the numerous features.



Alternative Languages

The SOLOPro+ CCU is currently available with keyboards in English, French, German and Russian.



Write Screen Text

Type and store up to 16 pages of on-screen text. Customise text colour, position and background colour.



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.



Screens Intensity

The brightness, colour and backlight intensity of the internal display can be adjusted to suit the environment in which the system is being used.



Joystick Control

The left hand joystick controls crawer manoeuvrability. Movement of the Pan, Rotate camera is smooth and effortless using the right hand joystick control. Perform a 360° endless rotation and pan the camera +/- 135°.



Share Files

WiFi enabled to allow remote access to stored images and data. Users can instantly share PDF reports, images and footage via email, or upload WinCan Reports via the Cloud to WinCan Web for ssecure, immediate team-wide access online.



Configure Preferences

Easily and quickly confifure the control unit to your specific requirements using the various menu options. Set language, date and time; establish file formats and naming conventions; adjust camera parameters; choose interface theme, enable power saving options and update firmware.

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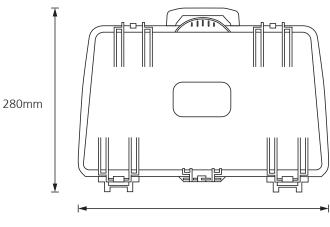


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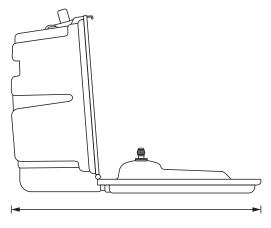
Proteus Control Unit

Feature rich, Minicam's CCU208 Control Unit has twin integral joysticks for camera control and crawler manoeuvrability, and an ergonomic soft-touch keypad. User friendly multi-function hot keys control an intuitive on-screen display, to enable quick and accurate navigation of the numerous features which all come as standard on the brain of the Proteus System. The control unit is shipped with ProPIPE+ and WinCan software as pre-installed as standard.





430mm



430mm

| Video Format | PAL |
|----------------------|---|
| Battery | Lithium-Ion (CCU stand alone) 6 hours |
| Battery | Lithium (CCU and Comp Coiler) 3 hours |
| Charging | Mains Power (100-240 Vac) or vehicle power (12 or 24 VDC) using supplied adaptors |
| Display | 10″ XGA (1024 x 768 pixels) Sunlight viewable |
| Keyboard | Full QWERTY style membrane keyboard with arrow keys for navigation and seperate joystick for camera control |
| Video Recording | MPEG4 (WinCan compatible) |
| Image Capture | JPEG (live or from recorded video) |
| Text Overlay | 16 page (selectable text and colours) |
| Internal Memory | 32GB (expandable to 128GB) |
| External Media | SDHC and USB 2.0 Memory Stick |
| Language Support | Multiple |
| Connections | Power and Cable Reel |
| Environmental Rating | IP54 |
| Weight | 5.5kg |
| Dimensions | 430mm x 280mm x 150mm |

Proteus Control Unit



Illumination

Hot Keys

Increase or decrease the intusity of the ultra-bright camera LEDs.



Survey Features

access embedded repoting software to create detailed on-site reports.



SONDE Settings

Set the freuency of the SONDE transmitter to 33kHz, 512Hz or 640Hz.



User friendly, multi-function hot keys

control an intuitive on-screen display of



Alternative Languages

The Proteus CCU is currently available with keyboards in English, French, German and Russian.



Write Screen Text

Type and store up to 16 pages of on-screen text. Customise text colour, position and background colour.



Generate Reports

the numerous features.

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.



Screens Intensity

The brightness, colour and backlight intensity of the internal display can be adjusted to suit the environment in which the system is being used.



Joystick Control

The left hand joystick controls crawer manoeuvrability. Movement of the Pan, Rotate camera is smooth and effortless using the right hand joystick control. Perform a 360° endless rotation and pan the camera +/- 135°.



Share Files

WiFi enabled to allow remote access to stored images and data. Users can instantly share PDF reports, images and footage via email, or upload WinCan Reports via the Cloud to WinCan Web for ssecure, immediate team-wide access online.



Configure Preferences

Easily and quickly confifure the control unit to your specific requirements using the various menu options. Set language, date and time; establish file formats and naming conventions; adjust camera parameters; choose interface theme, enable power saving options and update firmware.

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SYS-SPP40/60/100

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Push Camera Systems

SOLOPro+ has all you need to inspect pipes, document your findings, and create detailed reports for on-site delivery. It captures detailed footage under tough conditions, and its interface offers robust tools – including observation entry and reporting options – and accepts USB and SD media for easy offload of data, video, images and reports. SOLOPro+ is WiFi enabled to allow remote access to stored images and data.

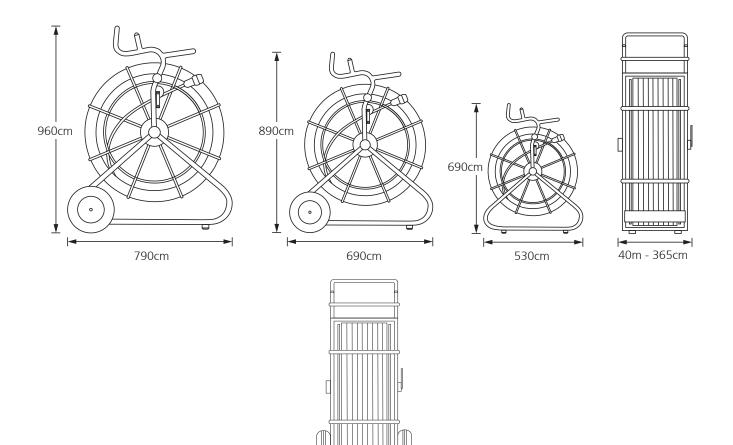


Compatibility



| Construction | Welded Steel | |
|--|-----------------------|--|
| Finish | Powder Coated | |
| Distance Counter Units | Feet, Metres | |
| Controls | Friction Brake | |
| Weight 40m - 15kg / 60m - 20kg / 100m - 30kg | | |
| Sonde | 22kHz / 512Hz / 640Hz | |

Push Camera Systems





100 METRE



100m/60m - 370cm

60 METRE



40 METRE

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CGP01

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Cable Guide Pulley

Reduces wear by preventing kinks and chaffing, and assists in the smooth guiding of inspection cable during your survey. Comes complete with 12 metres of rope and features a quick release mechanism to aid feeding the cable through.

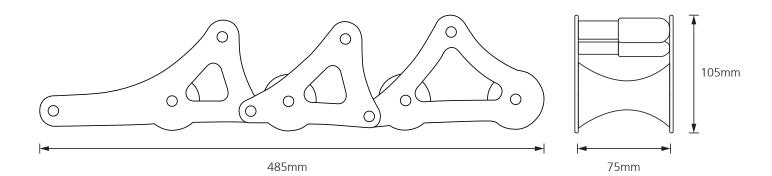


Compatibility



| Length | 485mm |
|-----------------------|---------|
| Width | 75mm |
| Height | 105mm |
| Weight including rope | 2.8kg |
| Compatability | Proteus |

Cable Guide Pulley





Quick Release to aid cable feeding

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PCC01

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Crawler Cradle

The Crawler Cradle adapts Minicam's CPL150, and CRP140 crawlers for use in large diameter pipes.Versatile, quick and easy to attach, the cradle provides extra ground clearance enabling improved inspection capabilities in pipes and culverts up to 1000mm in diameter.

This robust, steerable, 4-wheel drive cradle is driven by the crawler, and features a unique gear selector, enabling the user to change between high speed and high torque operation. Exclusively compatible with Proteus CPL150S, and CRP140 crawlers, PCC01 comes supplied with four 220mm balloon wheels.



Compatibility

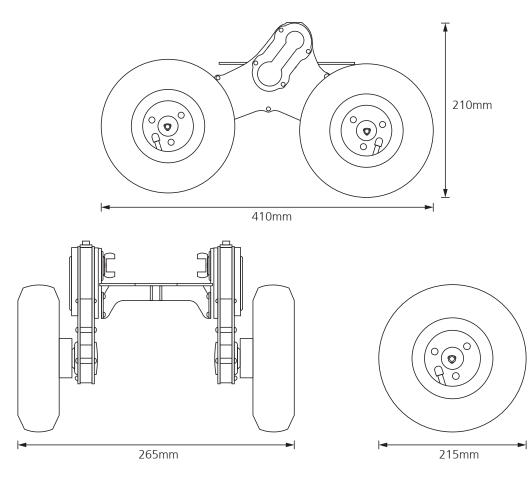


Technical Data

| Dimensions | 410 x 265 x 220mm | |
|---------------|--------------------------|--|
| Weight | 7.65kg | |
| Compatability | CRP140 / CLP150 Crawlers | |

Note: For heavily silted pipes we recommend the optional 250mm Balloon Wheel (QRW250/150), which are also required to centralise the crawler in 1000mm diameter pipes.

Crawler Cradle





Gear Selector The adjustable torque allows you to decide between low speed and high torgue or high speed and low torque.



Rear Connection



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SSP01/SSP02



SeeSnake® Interface

Sturdy and robust construction, the Minicam SeeSnake Interface unit connects the SeeSnake Standard and Mini Camera to Minicam's intuitive and advance Proteus Control Units and SOLOPro+ Control Units.

Please Note: Onlu compatable with SeeSnake Standard and Minicam products

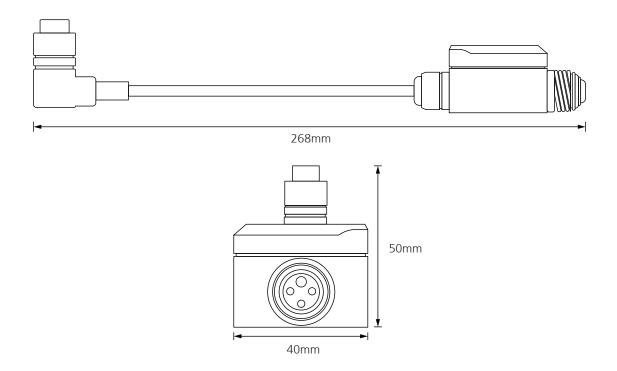


Compatibility



| | SPP01 | SPP02 |
|---------------|------------------|------------------|
| Compatability | Proteus CCU | SOLOPro+ CCU |
| Dimensions | 50 x 268 x 40 mm | 50 x 268 x 40 mm |
| Weight | 115g | 115g |

SeeSnake[®] Interface





Attached to the CCU

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ASS-001-968



Lateral Pin Kit

A useful addition to the SOLOPro+ pipeline inspection system. 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.

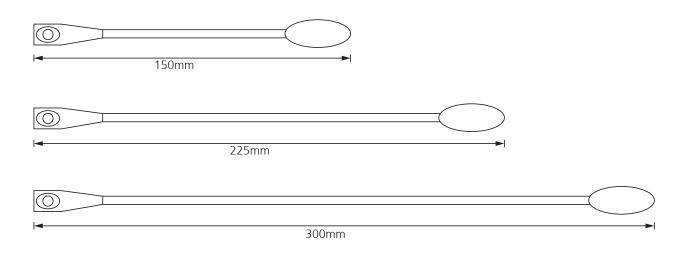


Compatibility



| Small Pin Length | 150mm |
|------------------|-------------------------------|
| Medium Pin Kit | 225mm |
| Larger Pin Kit | 300mm |
| Fixings | 6 Screws |
| Case | Foam lined with snap lock lid |
| Compatability | Proteus / SOLOPro+ |

Later Pin Kit





Lateral Pins

Three sizes of pin small 150mm (6in), medium 225mm (9in) large 300mm (12in), fixings and full instructions included.



Attached



Kit Case

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ASS-001-955/ASS-002-008 ASS-002-009/ASS-002-160



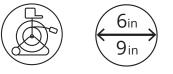
Roller Skids

Use Minicam Roller Skids to increase the effectiveness and lifespan of your pipeline inspection system. Manufactured from high quality materials. No tools or manual adjustments are required, simply fit the skid and the three pivoting arms with specially shaped nylon wheels adjust to fit the required pipe diameter keeping the camera head centered in the pipeline at all times.

The roller skids expand the system for use in 15cm to 22.5cm (6"-9") pipelines, this enables you to use your push camera inspection system in pipelines that would otherwise require a crawler system. The roller skids allow inspection cameras to negotiate multiple corners and bends and increase the depth range significantly.

Available in 2 sizes to fit Self Levelling Axial Camera (CAM025) and the Pan & Rotate Camera (CAM026). Manufactured from stainless steel and ABS plastic the device is sturdy, rugged and corrosion resistant to withstand the punishment of daily field work.

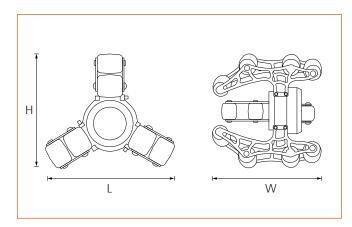
Compatibility

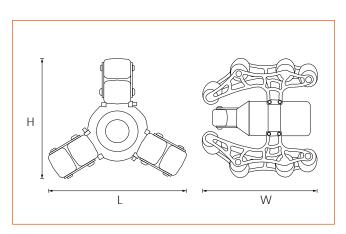


| А | ASS-002-009 | 180mm Roller Skid for CAM025 |
|---|-------------|------------------------------|
| В | ASS-001-955 | 180mm Roller Skid for CAM026 |
| С | ASS-002-160 | 130mm Roller Skid for CAM026 |
| D | ASS-002-008 | 130mm Roller Skid for CAM025 |



Roller Skids



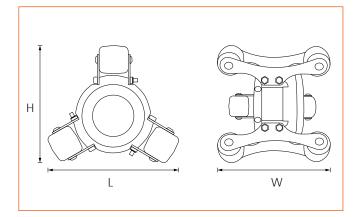


ASS-001-955

Dimensions - L x W x H 160mm x 155mm x 140mm

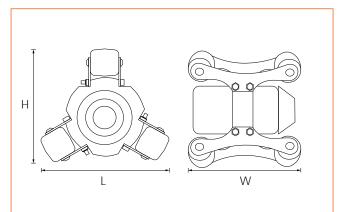
ASS-002-009

Dimensions - L x W x H 150mm x 155mm x 140mm



ASS-002-160

Dimensions - L x W x H 120mm x 110mm x 105mm



ASS-002-008

Dimensions - L x W x H 115mm x 110mm x 105mm

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CCP60/CCP100

🇐 minicam

Compatible Coiler

Push rod coiler CCP60R with removable CAM025 Self Levelling Axial camera head, designed to plug directly into the Proteus CCU. Also available as CCP60D (Duo) allowing a CAM026 Pan & Rotate camera to be attached. Robust construction with mobility wheels, and a durable power coated finish.

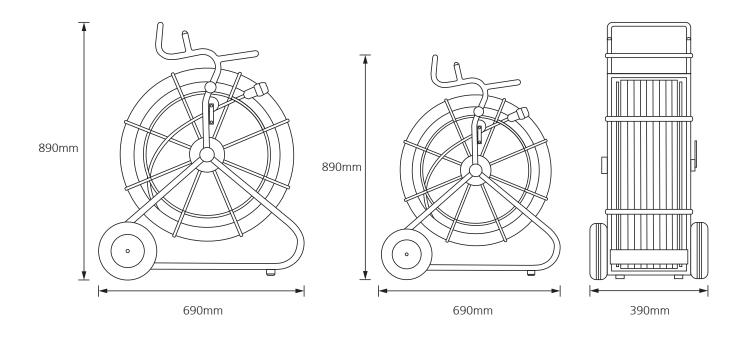


Compatibility



| | CCP60 / CCP100 |
|--------------------------|-------------------|
| Temperature Range | -20°C ~ +50°C |
| Dimensions H x W x D | 890 x 360 x 690mm |
| Weight (without CCU) | 21.3kg |
| Environmental Protection | IP54 |

Compatible Coiler





100 Metre Compatible with CAM026 Pan & Rotate camera.



60 Metre Compatible with CAM025 Axial camera



Centering Skids Centering skids optimize your view in pipes 75mm and larger. The CCP coiler comes complete with a set of three skids and a removal tool.

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ASS-000-001A / 002A / 003A



Centering Skids

Centring Skids optimise your view in pipes 75mm and larger. Manufactured from ABS plastic, which can be washed and wiped clean, the skids are sturdy and rugged to withstand the punishment of daily field work. Quick and easy to fit. Minicam's Proteus Compatible Coiler (CCP100/CCP60) is shipped with a complete set of 3 centring skids and a skid removal tool.

Technical Data

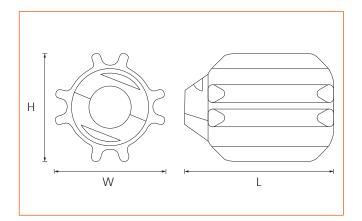
| А | ASS-000-001A | 4inch Centering Skid |
|---|--------------|----------------------|
| В | ASS-000-002A | 6inch Centering Skid |
| С | ASS-000-003A | Protection Skid |
| D | FAL-000-667 | Skid Removal Tool |
| | | |

Compatibility



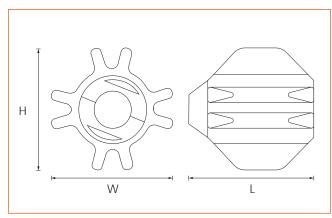


Centering skids



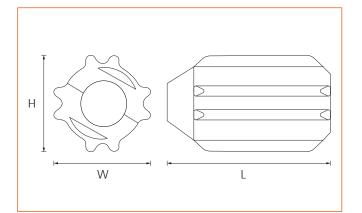
ASS-000-001A

Dimensions - L x W x H 102mm(4inch) x 70mm x 70mm



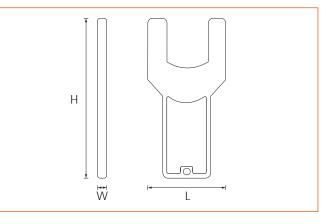
ASS-000-002A

Dimensions - L x W x H 152mm(6inch) x 100mm x 100mm



ASS-000-003A

Dimensions - L x W x H 102mm(4inch) x 60mm x 60mm



FAL-000-667

Dimensions - L x W x H 61mm x 6mm x 102mm









PCC01-ExZ1

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ATEX Crawler Cradle

The ATEX Zone1 Crawler Cradle adapts Minicam's CRP140-ExZ1 crawler for use in large diameter pipes. Versatile, quick and easy to attach, the cradle is engineered, built and tested for safe use in some of the most dangerous situations.

The CRP140 ATEX crawler makes working in ZONE 1 and other explosion-risk environments much easier and safer than alternative methods, giving you a clear, sharp eye into the unknown, wihtout introducing risk through use of electronic devices.

Up To 1000 mm



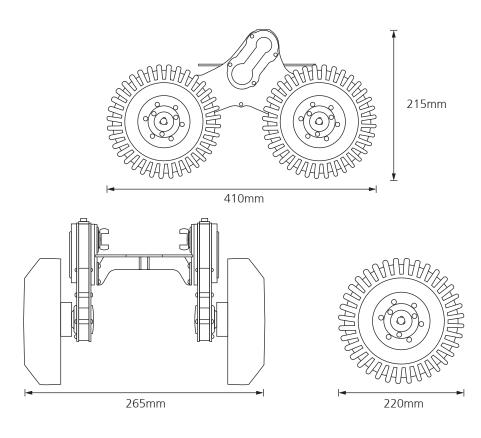
Compatibility





| Dimensions | 410 x 265 x 220mm | |
|---------------|--------------------------|--|
| Weight | 7.65kg | |
| Compatability | CRP140 / CLP150 Crawlers | |

ATEX Crawler Cradle





Gear Selector The adjustable torque allows you to decide between low speed and high torgue or high speed and low torque.



Rear Connection



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RAP200/300

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Motorised Cable Reel

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.

Minicam motorised cable reels are designed for easy oneperson 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 reel is operated using the dedicated keys and intuitive on-screen display on the Proteus Control Unit.

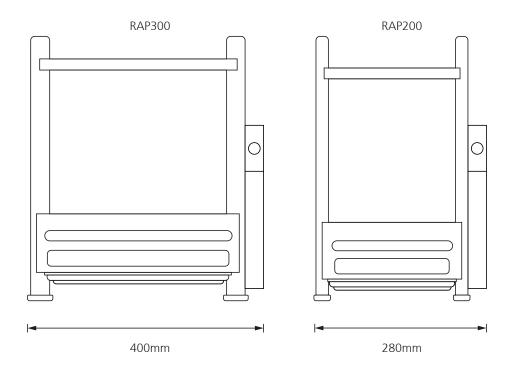


Compatibility



| | RAP200 | RAP300 |
|---------------------------------|-------------------|-------------------|
| Cable Length | 250 metres | 350 metres |
| Dimensions (L x W x H) | 530 x 320 x 520mm | 530 x 440 x 520mm |
| Weight | 30.5kg | 40.5kg |
| Power Supply | 24v | 24v |
| Environmental Protection | IP54 | IP54 |
| Optional Remote Controller | RJP/RCP4 | RJP/RCP4 |
| | | |

Motorised Cable Reel





RAP300



RAP200

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ATEX LED Pod and Aux Light

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LED Pods

Ultra-bright LED auxiliary light head adds extra illumination for inspections in larger pipe diameters. The twin light pods have manually adjustable arms to give full horizontal 180° rotation and 90° upward rotation. The colour rear view backeye camera aids crawler reversing.

Auxiliary Light

Stainless steel housing features three high powered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lens.



Compatibility





300 mm



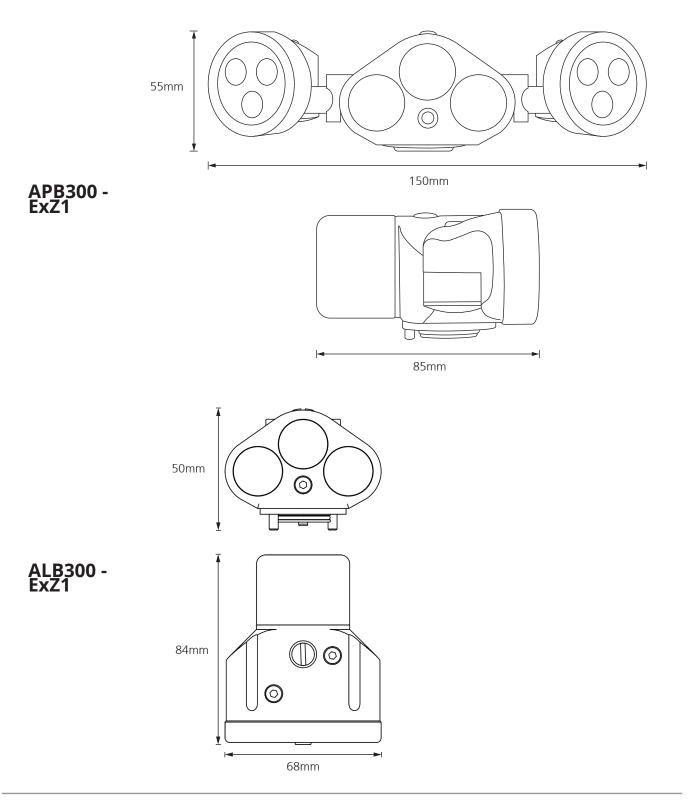
Technical Data

APB300 - ExZ1

| Pipe Diameter | 300mm upwards |
|-----------------------|-------------------|
| Illumination System | 9 High Power LEDs |
| Backeye Camera | YES |
| Pressure Depth Rating | 1 bar (14.50psi) |
| Dimensions | 85 x 150 x 55mm |
| Weight | 480g |

ALB300 - ExZ1

| Pressure Depth Rating | 1 bar (14.50psi) |
|-----------------------|------------------------|
| Dimensions | 84 x 68 x 50mm |
| Weight | 306g |
| Backeye Camera | YES |
| Compatability | Proteus / Proteus Lite |
| | |



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PROTEUS LITE

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Proteus Lite System

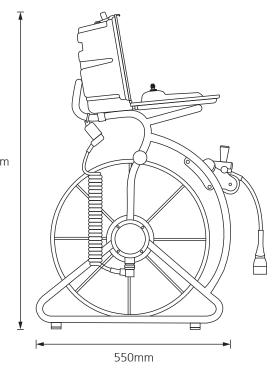
Minicam's Proteus[™] Lite brings together, the tried and trusted performance and reliability of the Proteus family, in a value for money, entry level system. Proteus Lite is the ideal starter kit for a one-man operation, integration into a small inspection van, or a low-cost option for larger companies to use for off-road, remote locations. Proteus Lite provides all the resources required to undertake efficient, easy to perform inspections, and with ProPIPE+[™] and WinCan[®] Embedded software as standard, you can deliver accurate, detailed reports, instantly on-site. The system comprises a CCU208 Control Unit, RMPL250 Reel, CPL150S Crawler and CAM026 Camera.

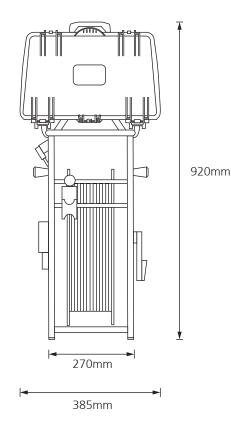
Compact, space-saving design, robust construction with a powder coated finish, and equipped with easy-to-use features including a manually operated cable layering arm and meterage roller, which is easily removed for cleaning. The friction brake can be fully locked, unlocked or applied as a friction brake to avoid unwanted pay-off of the cable, and a sturdy winding handle folds away neatly to save space. The cable reel comes complete with 250 metres of 6.8mm Kevlar reinforced cable, and sports our signature "cow-horn" CCU locators, enabling a secure quick fit of the Proteus Lite control unit ready for work. For added flexibility an optional Tilt Table allows adjustment of the control unit position, to give the user optimal screen viewing and keyboard positions.



Compatibility







920mm





Quick Release Elevator



CAM026 360° Rotate & +/- 135° Pan

CPL150S Crawler

Technical Data

| CCU208 Controller | | |
|----------------------|--|--|
| Video Format | PAL | |
| Battery | Lithium-lon (CCU stand alone) 6 hours | |
| Battery | Lithium-Ion (CCU and Comp Coiler) 3 hours | |
| Charging | Mains power (100-240 Vac) or vehicle power (12 or 24 VDC) using supplied adaptors | |
| Display | 10.4" XGA (1024 x 768 pixels) Sunlight viewable | |
| Keyboard | Full QWERTY style membrane keyboard with arrow keys for navigation and seperate joysticks for camera and crawler control | |
| Video Recording | MPEG4 (WinCan compatiable) | |
| Image Capture | JPEG (live or from recorded video) | |
| Text Overlay | 16 page (selectable text and colours) | |
| Internal Memory | 32GB (expandable to 128GB) | |
| External Media | SDHC and USB 2.0 Memory Stick | |
| Language Support | Multiple | |
| Connections | Power and Cable Reel | |
| Environmental Rating | IP54 | |
| Weight | 5.5kg | |
| Dimensions W x H x D | 430 x 280 x 150mm | |
| | | |

RMPL250 Reel

Welded Steel

| CAM026 Pan and Rotate | | |
|--------------------------|------------------------------------|--|
| Sensor | 1/4" colour CCD with DSP | |
| Effective pixels | 512 x 582 | |
| Camera Sensor | 470 HTVL | |
| Sensitivity | <1.0 Lux | |
| Aperture / Field of view | F2.5 / 75° | |
| Image Orientation | Auto-levelling | |
| Size | 74mm (2.9in) dia | |
| Illumination System | 6 LED | |
| Illumination Intensity | Adjustable (to 12.5K Lux at 150mm) | |
| Construction | Aluminium / Stainless Steel | |
| Pipe Compatability | 150mm (6") and larger | |
| Pipe Adaptor Kit | 6" / 8" Skids | |
| | | |

| CPL150S Crawler | | | |
|-----------------------------------|------------------|--|--|
| Pipe Diameter | 150mm and larger | | |
| Pressure Depth Rating | 1 bar (14.50psi) | | |
| Built-in- Elevator | Manual | | |
| Quick Change Wheel Lock | | | |
| Optional Large Wheels | 4 size options | | |
| Multi-Frequency Sonde Transmitter | | | |
| Inclination Sensor | | | |
| Heavy Duty Connector | | | |
| Weight | 9.25 kg | | |
| Dimensions L x H x W | 320 x 85 x 100mm | | |

Powder Coated Distance Counter Units Feet, Metres Friction Brake 29.3kg 550 x 385 x 700

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Dimensions L x W x D

Construction

Finish

Controls

Weight



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Proteus Lateral System

The LAT150 is a mainline to lateral inspection crawler designed to offer range, reliability and functionality. Whether you're offering pre-acceptance inspection, searching for cross bores or inflows or conducting a structural survey, Minicam's selfpropelled LAT150 has you covered.

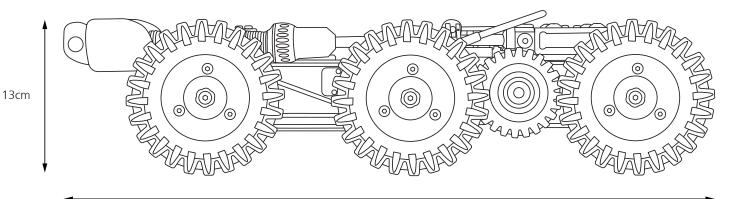
The LAT150 offers a multitude of options to help overcome challenging situations and give complete control of each launch. The system has flexible but easy to use options available such as, various configurations and sizes of wheels, deployment tubes and the lateral pin.

To enable accurate positioning of the camera in larger mainlines, the LAT150 can be fitted with various sized deployed tubes. The unique design of the pivot provides quick, easy and tool-less attachment of deployment tubes in any size.

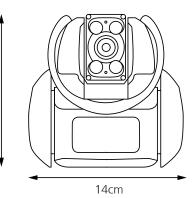


| Distance1150ft350mDistance150ft45mration Camera Lines740TVLtrain Configuration8x8x (8 Wheel Drive)I Compatability3.5, 4.5, 5.5 inch90, 115, 140 mnum Access Size12 inch300mmtingIP68num Water Depth33ft10mnal Pressure (operational)14.2PSI1 bare33k 521 60Hzine Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)rial (lateral drive module)Adnodized AluminumAnodised Aluminumnsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmt with Observation Camera6.3 inch16 cm | | US | UK |
|--|--|-----------------------------|--------------------|
| chouse150ft45mchouse150ft45mvation Camera Lines740TVLtrain Configuration8x8x (8 Wheel Drive)I Compatability3.5, 4.5, 5.5 inch90, 115, 140 mnum Access Size12 inch300mmnum Access Size12 inch300mmringIP68num Water Depth33ft10mnal Pressure (operational)14.2PSI1 barae33k 521 60Hz150 - 2000mmriae Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)rical (rear body)Brass (Zinc Coated)rial (lateral drive module)Adnodized Aluminumnsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmt with Observation Camera6.3 inch16 cmnuous monitoring of speed, internal pressure inclination and temperature | | | |
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| I Compatability3.5, 4.5, 5.5 inch90, 115, 140 mnum Access Size12 inch300mmtingIP68num Water Depth33ft10mnal Pressure (operational)14.2PSI1 baral Pressure (operational)14.2PSI1 bartine Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)rial (front body)Brass (Zinc Coated)rial (lateral drive module)Adnodized AluminumAnodised Aluminsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmt with Observation Camera6.3 inch16 cm | bsrvation Camera Lines | 740TVL | |
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| LingIP68num Water Depth33ft10mnal Pressure (operational)14.2PSI1 baral Comparison of the Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)Brass (Zinc Coated)rial (lateral drive module)Adnodized AluminumAnodised Aluminsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmthe with Observation Camera6.3 inch16 cmnuous monitoring of speed, internal pressure inclination and temperature | /heel Compatability | 3.5, 4.5, 5.5 inch | 90, 115, 140 mm |
| num Water Depth33ft10mnal Pressure (operational)14.2PSI1 barnal Pressure (operational)14.2PSI1 bare33k 521 60Hzine Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)rical (rear body)Brass (Zinc Coated)rial (lateral drive module)Adnodized Aluminumnsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmt with Observation Camera6.3 inch16 cmnuous monitoring of speed, internal pressure inclination and temperature | inimum Access Size | 12 inch | 300mm |
| nal Pressure (operational)14.2PSI1 baral Pressure (operational)14.2PSI1 baral Pressure (operational)33k 521 60Hzine Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)rical (rear body)Brass (Zinc Coated)rial (lateral drive module)Adnodized Aluminumnsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmt with Observation Camera6.3 inch16 cmnuous monitoring of speed, internal pressure inclination and temperature | P Rating | IP68 | |
| and restrict (operational) and restrict (operational) a 33k 521 60Hz ine Diameters 6 - 80 inch rial (front body) Brass (Zinc Coated) rical (rear body) Brass (Zinc Coated) rial (lateral drive module) Adnodized Aluminum nsions L x W x H 24 x 5.5 x 5.1 inch 61 x 14 x 13 cm t with Observation Camera 6.3 inch 16 cm | laximum Water Depth | 33ft | 10m |
| ine Diameters6 - 80 inch150 - 2000mmrial (front body)Brass (Zinc Coated)rical (rear body)Brass (Zinc Coated)rial (lateral drive module)Adnodized AluminumAnodised Aluminumnsions L x W x H24 x 5.5 x 5.1 inch61 x 14 x 13 cmt with Observation Camera6.3 inch16 cmnuous monitoring of speed, internal pressure inclination and temperature | ternal Pressure (operational) | 14.2PSI | 1 bar |
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| it with Observation Camera 6.3 inch 16 cm nuous monitoring of speed, internal pressure inclination and temperature | aterial (lateral drive module) | Adnodized Aluminum | Anodised Aluminium |
| nuous monitoring of speed, internal pressure inclination and temperature | imensions L x W x H | 24 x 5.5 x 5.1 inch | 61 x 14 x 13 cm |
| | eight with Observation Camera | 6.3 inch | 16 cm |
| axis inclination sensor | ontinuous monitoring of speed, internal pr | ressure inclination and tem | nperature |
| | ual axis inclination sensor | | |
| articulated knuckle connector | ear articulated knuckle connector | | |
| change wheel lock | uick change wheel lock | | |

LAT150 Crawler



61cm



13cm



Hinged Mid-Section

The hinged mid-section allows for easier mainline entry access and reduces overall length making it easier in 6 inch pipes with front wheels drive so there is no need to lock the hinge when inserting into mainline pipe.

Lateral Drive Belt

The drive belt's flexible tread grips the push rod but prevents dust and dirt from building up with user replaceable belt tensioners allows for quick changeover on site.



Meterage Counter Close to deployment for an accurate lateral distance measurement.





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Minicam Ltd, Unit 33, Ravenscraig Road, Little Hulton, Salford, M38 9PU Tel: + 44 (0) 1942 270524 • Email: info@minicam.co.uk www.minicamgroup.com

Proteus Lateral Cable Reel

A single line 350 metre reel, combining 305 metres of high strength, Kevlar reinforced inspection cable with 45 metres of flexible 11 mm diameter push rod for the lateral camera. The LCR350 pays out matching the speed of the Proteus Lateral Crawler. The extendable arm of the guide roller has a 4-position locking system for ease of deployment at the rear of the vehicle.

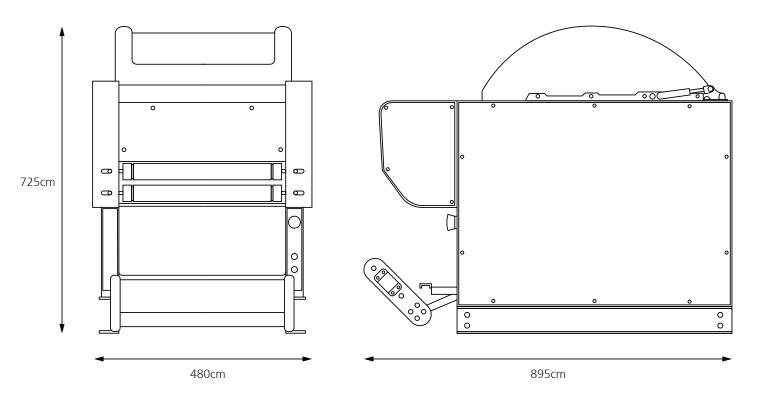


Compatibility



| | US | UK | |
|-----------------------|--------------------------|--------|--|
| Operation | 3 phase motor | | |
| Payout / Rewind | Cable layering mechanism | | |
| Emergancy Stop Button | In-Built | | |
| Push Rod Length | 150ft | 48m | |
| Cable Length | 1150ft | 350ft | |
| Cable Typer | Kevlar Reinforced | | |
| Power Supply | 100 - 240 VAC | | |
| Power Consumption | 600W | | |
| Length | 35 icnh | 895 mm | |
| Width | 19 inch | 480 mm | |
| Height | 28 inch | 725 mm | |
| Weight | 264.5 lbs | 120 kg | |
| Van Guide Pulley | Integral | | |

Lateral Cable Reel





Guide Roller

The extendable arm of the guide roller has a 4-position locking system for ease of deployment at the rear of the vehicle.



Combined Cable The 1150-foot reel combines the 350-metre reinforced cable with 45 metres of push rod.



Automatic Pay Out The LCR350 automatically pays out matching the speed of the Proteus Lateral Crawler.

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Minicam Ltd, Unit 33, Ravenscraig Road, Little Hulton, Salford, M38 9PU Tel: + 44 (0) 1942 270524 • Email: info@minicam.co.uk www.minicamgroup.com