

minicaminc.com

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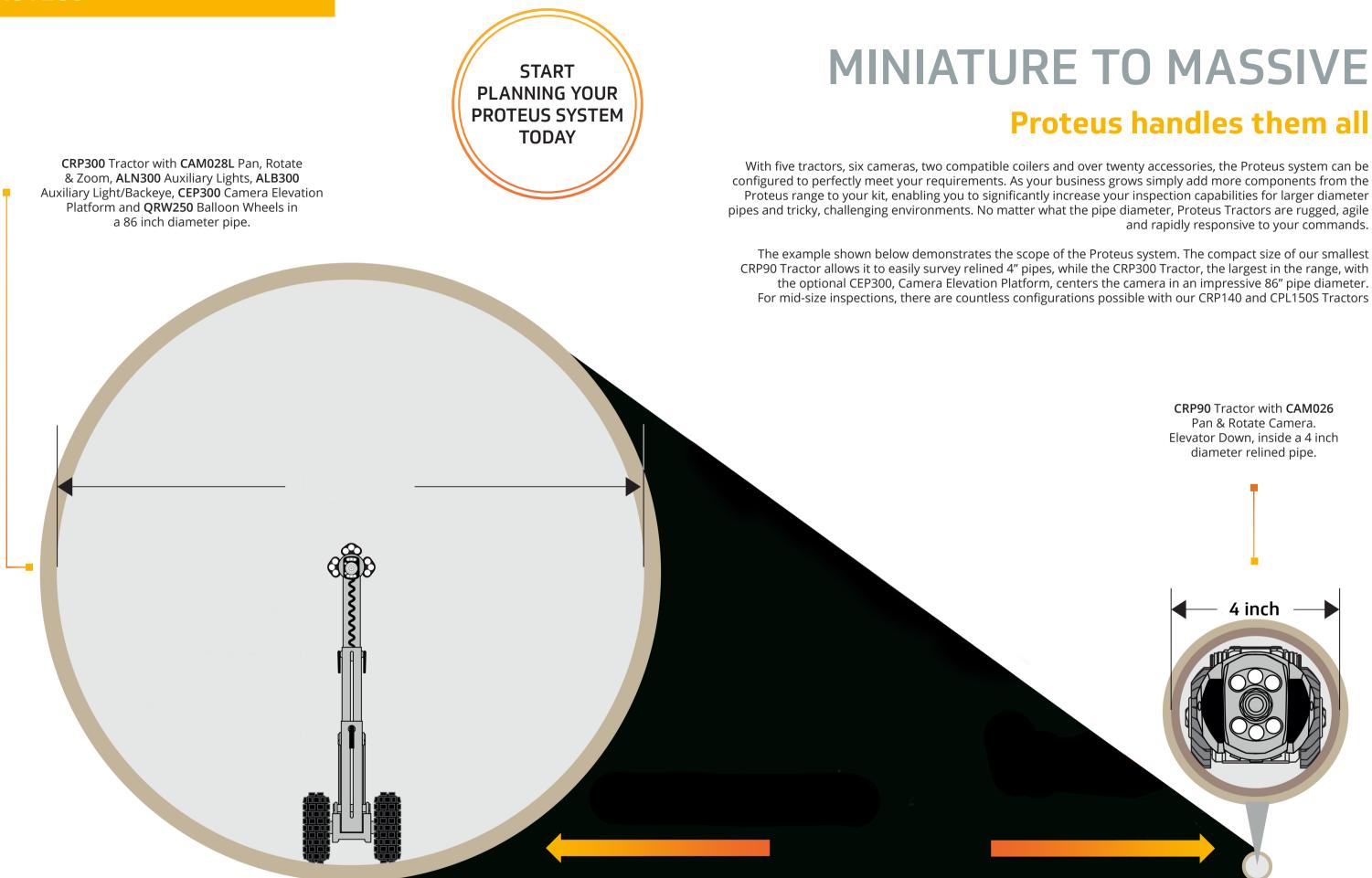
About Us

Dedicated to pipeline inspection innovation



For over 30 years we have used our industry experience and customer feedback to continually innovate. We develop leading solutions for challenging environments, producing smart, user-friendly, durable, high-quality systems that keep our customers working.

Minicam Inc is North America's distributor of sewer inspection equipment, parts and accessories. With the support of our extensive dealer network. They also function as a service and retail facility headquartered in the Detroit, Metropolitan Area. They intend to provide world-class sales, service and training to the underground inspection industry.



PROTEUS TRACTORS

CRP90

Massive capabilities Skillfully miniaturized

CRP90's compact size allows it to easily survey relined 3.5" pipes. The motorized elevator enables the camera to be centered in pipes of up to 9" diameter.



ALL STANDARD FEATURES INCLUDED

PHI

- 6 x QRWX60SR 2" Rubber Wheels
- Motorized Elevator Range 1.5-3"
- Articulated 'Knuckle' Connector

TECHNICAL SPECIFICATION
Product Code CRP140

21lbs

Pipe Sizes

Weight

OPTIONAL

- Carbide Wheels
- High Grip Wheel

TECHNICAL SPECIFICATION		
Product Code	CRP90	
Pipe Sizes	3.5" - 9"	
Weight	10lbs	

CPL150S

Entry level, mid-size tractor with manual elevator

The perfect companion to the RMPL250 Reel. CPL150S has the same professional grade quality, reliability and accuracy as our mainline Proteus Tractors.

ALL STANDARD FEATURES INCLUDED

PLUS

- 6 x QRWX90SR 2" Rubber Wheels
- Manual Elevator Range 2-4"
- Heavy Duty Rear Connector

OPTIONAL

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



TECHNICAL SPECIFICATION			
Product Code	Product Code CPL150S		
Pipe Sizes	From 6" - 18" to 31" with PCC01 Tractor Cradle		
Weight	20lbs		



From 5.5" - 24" to 40" with

PCC01 Tractor Cradle

CRP140

Sophisticated mid-size tractor modelled on the $\ensuremath{\mathsf{CPL150S}}$

For pipes from 5.5" (even in a relined pipe) up to 24", with the optional PCC01 Tractor Cradle it can even be used in pipes up to 40" diameter.



PLUS

6

- 6 x QRWX90SR 3.5" Rubber Wheels
- Motorized Elevator Range 4-8m"
- Articulated 'Knuckle' Connector

OPTIONAL

- Carbide Wheels
- High Grip Wheel



TECHNICAL SPECIFICATION			
Product Code	duct Code CRP300		
Pipe Sizes	From 12" - 40" to 86" with Elevation Platform		
Weight	70.5lbs		

CRP300

Engineered to perform reliably in challenging conditions

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

ALL STANDARD FEATURES INCLUDED

PLUS

- 6 x QRWX140SR 5.5" Rubber Wheels
- Motorized Elevator Range 5-15"
- Heavy Duty Rear Connector

OPTIONAL

Wide Axel Balloon Wheels

PROTEUS LATERAL

Pan-Tilt Laser Camera

Expertly engineered in stainless steel and aluminium. this robust camera offers maximum pan and rotate flexibility for use in small diameter pipe applications, from 2.36" up. The camera features an integral distance sensor and dual aligned visible lasers, to enable accurate pipe diameter, defect, and object measurement, directly from the control unit. The precision camera lens and four ultra-bright LED's guarantee clear, defined, quality inspection images.





Hinged Mid-section

The hinged midsection allows for flexible mainline entry for access sizes as small as 12.5". No hinge locking required due to constant wheel support.

Rod Rollers Assists smooth friction-free guiding of the push rod.

Observation Camera and LED Auxiliary Light

Forward facing precision camera capable of 740TVL resolutions with powerful ultra-bright LEDs provides a bright, clear picture to assist launching into the unknown with confidence.



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



Back-eye Camera and LED **Auxiliary Light**

Taken from our tried and tested Proteus Back-eye camera and positioned above flow, this color camera and LED light enables confident cable management during reverse travel.



Lateral Pin The optional pin adjusts the direction and guides the camera smoothly along the

pipe.

Pan-tilt Deployment Arm

The standard deployment arm provides horizontal pan and vertical tilt via the flexible front pivot, which enables accurate positioning of the camera/ push rod prior to launch. For larger mainlines, the unique design of the pivot provides quick and easy attachment of deployment tubes in varying sizes.

Quick Change Wheel Lock Easy single tool wheel lock enables you to use a variety of wheel sizes and type to offer significant performance benefits in various pipe diameters and for specific operating conditions.



Lateral Drive Belt

The drive mechanism maximizes your productivity by powerfully feeding the push rod up to 150 feet. The drive belt is designed to repel debris whilst in operation, the flexible tread is designed to remove dirt and prevent belt clogging, meaning long service intervals. The drive belt housing is user-serviceable enabling a quick single tool cartridge change while on-site.



Articulated 'Knuckle' Connector Enables easy deployment of the tractor and prevents water ingression to the connections.

Tractor Nudge Mode Use the orange colored arrows on the keyboard to nudge incremental distance for truly accurate positioning of the tractor.

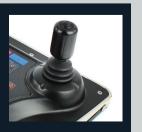








Single Click Mode Change Changing control mode between mainline and lateral is made easy by a single click of the joystick top button.



Wheel Configurations

Minicam's patented quick release wheel lock enables the user to quickly change wheel configurations of the LAT150 to launch in main lines from 6" to 80" diameter. Wheel sizes compatible with LAT150 are 3.5", 4.5" and 5.5".



LAT150 with 5.5" Soft Rubber Wheels (QRW140SR/150)



Standard Features

Compatible with:

- CAM026 Pan & Rotate
- CAM026L Pan, Rotate & Laser
- CAM027 Axial
- CAM028L Pan, Rotate, Zoom & Laser
- ALB300 Auxiliary Light with Backeye Δ
- ALN300 Auxiliary Light (Non-Backeye) Δ
- APB300 LED Pod with Backeye Δ
- APN300 LED Pod (Non-Backeye) Δ
- 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 (14.50psi) Pressure Tight
- Quick Change Wheel Lock
- In-Built Lowering Arm
- Heavy Duty Camera Connector
- Protective Front Connector Cap
- Protective Rear Connector Cap
- Lowering Rope
- Protective Carry Case*
- Tools

∆ Except CRP90, *Except CRP300



PROTEUS CCU

CCU208

Review Footage

Organize videos and images into folders, then find them using the thumbnail gallery. Review media using standard controls.



Illumination

Increase or decrease the intensity of the unltra-bright camera LEDs.



Survey Features

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



Hot Keys

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



Write Screen Text

Type and store up to 16 pages of on screen text. Customize text color, position and background color.



Capture Footage

Record MPEG video and IPEG images, and zoom up to 3x on video playback.



Sonde Settings

Set the frequency of the Sonde transmitter to 33kHz, 512Hz or 640Hz.



Control Meterage

Accurately set the meterage zero offset using the meterage key.





Use embedded reporting software to create detailed inspection reports with a pipe graph to pinpoint defects.



೦ೌ Power ON/OFF 0.00 ALL STOP! (5) minicam Esc Ο G H Κ N X C V B М X

Offload Data

Copy reports, videos and images to USB or SDHC media for easy transfer to PC and seamless integration with WinCan reporting and querying capabilities.

Alternative Languages

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

Screens Intensity

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



Internal Batteries

The Proteus CCU includes internal batteries so that it can be used autonomously to view inspection reports and video.



Setup & Configuration

Easily and quickly configure the Proteus CCU to your specific requirements using the various menu options. Set language, date and time, establish file formats and naming conventions, adjust camera parameters.



Share Flles

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 secure, immediate team-wide access online



Joystick Controls

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



Pan, Rotate & Laser CAM026L

Based on Minicam's popular CAM026 the CAM026L features an integral distance sensor and two aligned visible lasers to enable accurate pipe diameter, defect and object measurement, directly from the Proteus control unit.

With a continuous 360° rotation and +/-135° Pan, CAM026L is a compact, robust camera with twin clusters of three high powered ultra-bright LED lights to provide optimum illumination for better image clarity. The hard wearing, scratch resistant sapphire glass provides protection of the camera lens.

TECHNICAL SPECIFICATION			
Product Code	CAM026L		
Pipe Diameter	3.5" x 24"		
Aligned Laser Spacing	1"		
Camera Resolution	470 HTVL		
Sensitivity	<1.0 Lux		
Aperture/Field of View	F2.5/75°		
Dimensions	5" x 2.8" x 2.8"		
Illumination Intensity	12.5k Lux at 6"		
Pressure Depth Rating	1 BAR (14.50psi)		







Axial CAM027

A robust camera head with triple clusters of 3 high powered ultra-bright LED lights for optimum illumination and a scratch resistant sapphire glass to protect the lens.

TECHNICAL SPECIFICATION				
Product Code CAM027				
Camera Resolution 470 HTVL				
Sensitivity < 1.0 lux				
Aperture/Field of View F2.5 / 75°				
Dimensions 2.8" x 2" x 2"				
Illumination Intensity 12.5k lux at 6"				
Pressure Depth Rating 1 BAR (14.50psi)				







Pan, Rotate, Zoom & Laser CAM028L

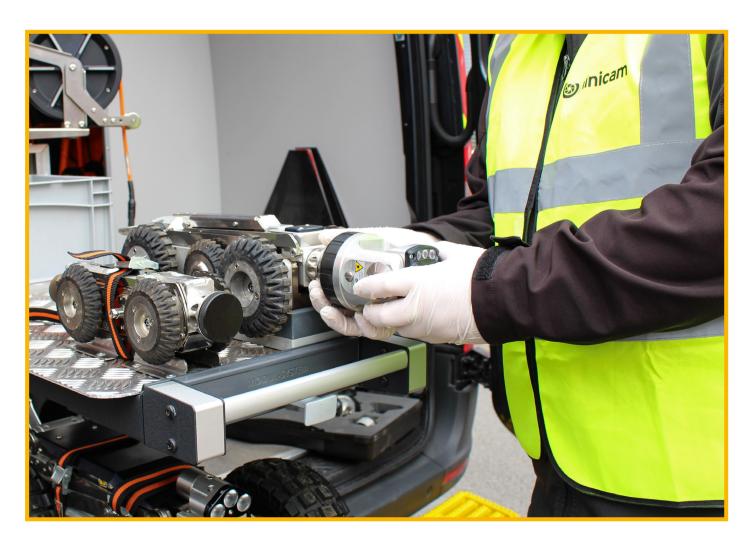
CAM028L Pan & Rotate camera with zoom has the same features as the CAM026L, but with the addition of an optical and digital zoom function to allow distant objects to be viewed in much greater detail. As with the CAM026L it has two aligned lasers for defect and object measurement and a distance sensor for pipe diameter measurement. It also has twin clusters of three powerful, ultra-bright LEDs for optimum illumination. Horizontal and vertical movement is smooth and shudder-free, with the full 360° rotate and +/-135° pan.

TECHNICAL SPECIFICATION			
Product Code CAM028L			
Pipe Diameter	3.5" - 24"		
Aligned Laser Spacing	1.2"		
Camera Resolution	800 HTVL		
Sensitivity	< 1.0 lux		
Aperture/Field of View	F1.8 - F2.9 / 46° - 4.6°		
Dimensions	5.5" x 3" x 3"		
Illumination Intensity	12.5k lux at 6"		
Pressure Depth Rating	1 BAR (14.50psi)		









Proteus Lite System

RMPL250 Reel

The core of the Proteus Lite system, this compact, space-saving reel is engineered to the same exacting standards as our mainline Proteus equipment.

- 820' Kevlar Reinforced Cable
- Manual Cable Layering Arm
- 2-Step Quick-Release Footage Rollers
- Friction Brake
- Removable Winding Handle
- Spring Loaded Connector
- Powder Coated Frame with Rubber Feet
- Mounting bracket for easy-fit Control Unit

CPL150 Tractor

- Quick-Adjust Manual Elevator
- Lowering Handle
- Heavy Duty Rear Connector
- 6 Soft Rubber Wheels
- Quick-change Wheel Lock

CAM026 Pan & Rotate Camera

With a continuous 360° rotation and +/-135° Pan, CAM026L is a compact, robust camera with twin clusters of three high powered ultra-bright LED lights to provide optimum illumination for better image clarity. The hard wearing, scratch resistant sapphire glass provides protection of the camera lens.

CCU208 Control Unit

View, record and annotate inspection footage from any composite video source with Minicam Control Units. User friendly multi-function hot keys control an intuitive on-screen display, to enable quick and accurate navigation and numerous other features.





Proven Reliability Modular Capability

Minicam's Proteus Lite brings together, the well proven performance and reliability of the Proteus family, in a value for money, entry level system.

Designed and developed in-house, 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+, WinCan Embedded and WinCan Web software as standard, you can deliver accurate, detailed reports, instantly on-site.

Future proof and totally modular, when your business budget allows, simply upgrade your Proteus Lite with a larger or smaller tractor, extra cameras and auxiliary lights, or one of the many other Proteus compatible accessories available.

CPL150S Tractor, CAM026 Pan & Rotate Camera



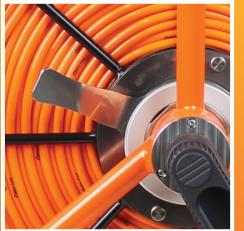
Quick-Adjust Manual Elevator



Lowering Handle



Manual Cable Layering Arm



Friction Brake / Hand Brake



Fold-away / Removable Handle



2-Step Quick Release Meterage Rollers



Camera Adaptor PCA01

Invaluable for hand-held walk-throughs and vertical inspections in manholes, chimneys, tanks and vessels.

A useful accessory for your inspection kit. PCA01 allows the user to connect a camera to the CCU without the need for a Tractor. Precision engineered from high specification materials, this compact tool is invaluable for vertical inspections, hand-held walk-throughs, and for use in a service department.



TECHNICAL SPECIFICATION		
Product Code PCA01		
Compatability Proteus System		
Features	Dual Aux Light Housings	
Dimensions	5" x 2.7 x 3"	
Weight	2lbs	

Adaptor Guides BAK01

Designed for vertical inspections. The robust arms keep the camera centered in the pipe and help to prevent damage to the camera and adaptor. BAK01 kit includes 2 sizes: 6" and 9".



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LED Pods APB300 / APN300

Adjustable LED light pods for larger pipe diameters.

Twin LED light pods are in-built to the auxiliary light. Manually adjustable, the directional light function provides a full horizontal 180° rotation and a 90° upward rotation, enabling forward, upward, rear or sideways facing positions. The light pod accessory fits all Proteus Tractors, and is quick and easy to fit. The APB300 backeye version features a color rear view camera to aid Tractor reversing.









ALB300 / ALN300

Auxiliary Lights

Ultra-bright LEDs for optimum illumination

A must-have accessory for Tractor users. The durable anodized aluminium housing features three highpowered ultra-bright LED lights and a scratch resistant sapphire glass to protect the lens.





Automatic Reel ACR350 / ACR500

Experience powered winding in both directions!

Developed for the CCTV Inspection Van market, and modelled on our best-selling Proteus 1640' motorized cable reel, the ACR500 large capacity reel gives users an impressive 1150' of extra inspection capability.

Fitted with 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 cover and an instant motor stop button.



Motorized ReelRAP200 / RAP300

Experience powered winding in both directions!

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

Minicam motorized 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.

The reel is operated using the dedicated keys and intuitive on-screen display on the Proteus CCU.



Lateral Reel LCR350

Experience powered winding in both directions!

Fitted with 1150 feet of high strength, Kevlar reinforced inspection cable and 150' of flexible ½" diameter push rod. The extendable arm of the guide roller has 4 distance locks enabling the cable/rod to be deployed from the optimum position. Dual reels with installation flexibility in van arrangements are used to drive the LAT150 tractor. The Lateral Reel gives you 1150' of mainline capability to then extend the main camera up to 150 feet into a lateral pipe, while the mainline reel provides cable to the tractor for runs of up to 1150' within the mainline pipe. Ultra-smooth operation is provided by a powerful motor and cable layering mechanism, specially designed for uninterrupted, tangle free pay-out and re-winding. Clear safety screens prevent contact with the cable whilst coiling, and for additional safety there is a rigid lid and an emergancy stop button.





Van-fit configuration with LCR350 (top) and ACR350.

Used in conjunction with the lateral reel the fully automatic reel provides a distance capability of 1150' power the tractor along the pipeline. It uses our tried and tested Kevlar reinforced inspection cable, and has all the functionality and safety features of the lateral reel. For additional smooth friction-free guiding, an optional van guide pulley is available.

REELS	Lateral Reel - LCR350	Mainline Reel -ACR350
Operation	3 Phase motor	
Payout / Rewind	Cable layering mechanism	Cable layering mechanism
Emergency stop button	In-built	In-built
Push rod length	150'	-
Cable length	1000'	1150'
Cable type	Kevlar reinforced	Kevlar reinforced
Power Supply	100-240 VAC	100-240 VAC
Power Consumption	600W	600W
Dimensions LxWxH	35" x 19" x 28"	26" x 17" x 25"
Weight	265lbs	93lbs
Van Guide Pulley	Integral	VGP350 (Optional)

TRACTOR WHEELS

Our specially designed wheels offer significant performance benefits in various pipe diameters and for specific operating conditions.

Soft Black Rubber

Available in four sizes and wide axel

Black, soft rubber wheels developed to provide improved traction in regualr pipes.



Carbide

Available in four sizes and wide axel

Fragmented copper particles fused to an heavy duty stainless steel body.



High Grip

Available in three sizes and wide axel

Hard wearing carborundum manufactured with a deeP bevel profile to provide improved traction in wet and greasy pipes







Phuematic Balloon

Available in one size and wide axel

Heavy duty, 10" wide tyres designed to improve performance on our large Proteus CRP300 tractor. Optional for tractor Cradle PCC01





Wheel Sizes & Compatibility

WHEEL TYPE	TO FIT CRP90	TO FIT CRP140 & CPL150S	TO FIT CRP300	RECOMMENDED PIPE DIAMETER
Soft Black Rubber Whe	2			
2"	QRW60SR/90	-	-	4"
3.5"	QRW90SR/90	QRW90SR/150	-	6"
3.5" XL	QRW90XLSR/90	-	-	6"
4.5"	-	QRW115SR/150	-	8" - 12"
5.5"	-	QRW140SR/150	QRW140SR/300	12" - 16" (150) 12" - 24" (300)
5.5" XL	-	QRW140XLSR/150	-	18" - 24"

Carbide Wheels				
2"	QRW60CB/90	-	-	4"
3.5"	QRW90CB/90	QRW90CB/150	-	6" - 8" (90) 6" (150)
3.5" XL	QRW90CBXL/90	-	-	8" - 12" (90)
4.5"	-	QRW115CB/150	-	8" - 12"
5.5"	-	QRW140CB/150	-	12" - 18"

High Grip Wheels				
3.5"	QRW90HG/90	QRW90HG/150	-	6" - 8"
3.5" XL	QRW90HGXL/90	-	-	8" - 12"
4.5"	-	QRW115HG/150	-	8" - 12"
5.5"	-	QRW140HG/150	-	12" - 18"

Pneumatic Balloon Wheels				
10"	-	-	QRW250	24" - 39"
10" XL	-	-	QRW250XL	24" - 39"



Quick Release Lock

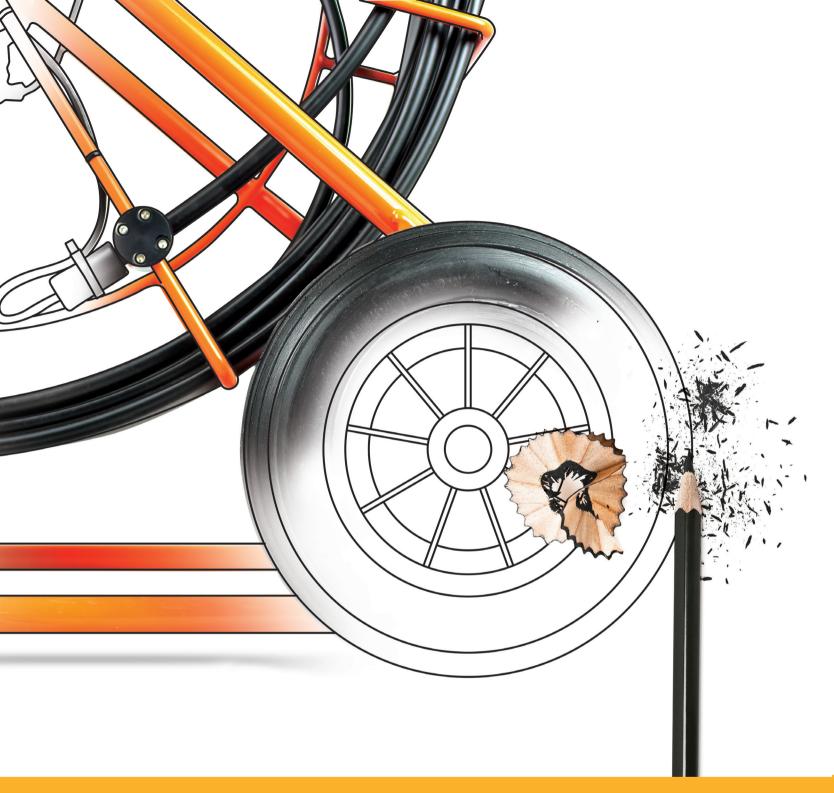
All Proteus Tractors feature Minicam's unique, patented wheel lock device. This makes it easy to change the tractor wheel type to suit the size and condition of the pipe. Using the supplied Hex T-Bar driver, the operation is quick and simple with no other tools required.



Wide Axel Wheels

Extend the capability of your Tractor. Quick and easy to attach, wide axel wheels provide instant extra width for inspections in wider pipe diameters

Wide Axel wheels are available in soft black rubber, high grip and carbide



ENGINEERED TO PERFORM

SOLO PRO+ handles it all

High quality components are used in all Minicam products, and our skilled technicians build each system by hand to our exacting standards.

Every SOLO PRO+ System is checked and rigorously tested before leaving our factory, and you can rest assured that we're right behind you, with our impeccable service and aftercare.















Easy-fit Control Unit

Heavy Duty Camera Connector

Rod Roller

Integrated Meterage Measurement

Friction Brake

Heavy Duty Wheels

Coiler SPP 130 / 200 / 330

The coiler frame is the carrier for the coiler rod, the camera and the CCU. Minicam have constantly refined the design, materials, components and construction, to make for our best ever frame. Customers the world over have come to rely on the SOLO PRO+ frame for the reliability, and of course our enviable after-care and service back-up.

The welded tubular steel construction and protective powder coating means the coiler stands up to the punishment of daily field use. The rod sheath is protected when paying-out and rewinding by an integrated rod roller, and a sturdy, water resistent camera connector houses the multi-frequency sonde, with selectable frequencies 33kHz, 512Hz and 640Hz. A sealed slip ring in the coiler hub ensures reliable operation, while measurements from the integral distance counter appear on the CCU screen for recording into the video.







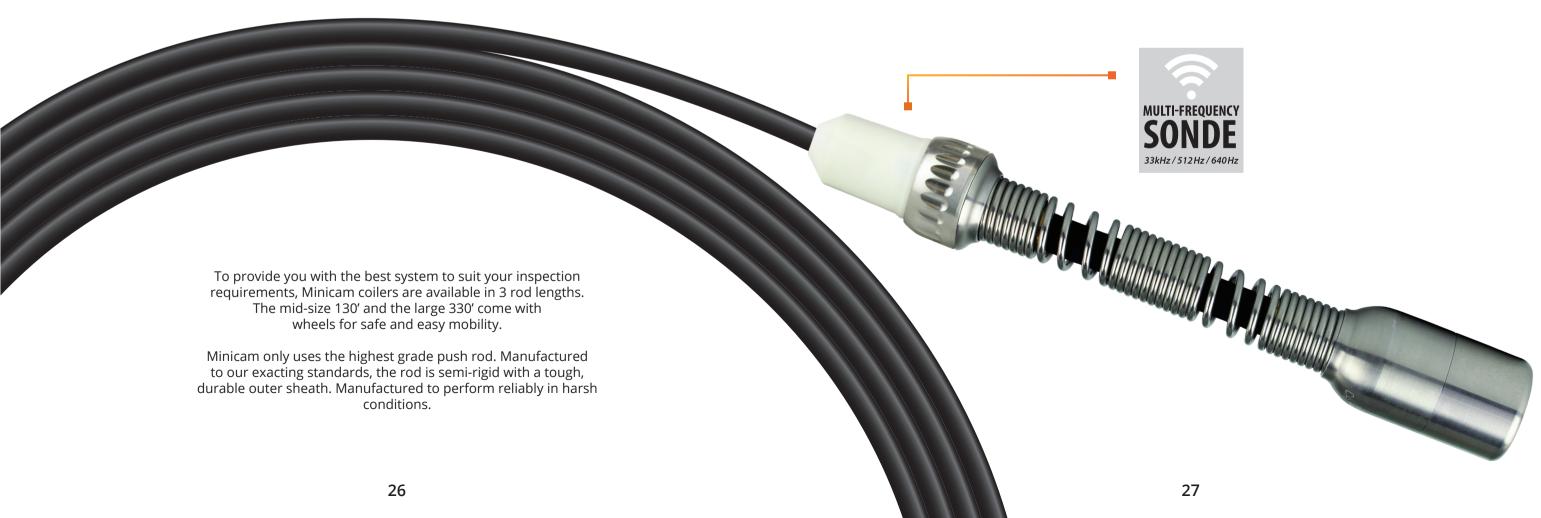




330'

200'

130'



50L0 PR0+ CCU210

Review Footage

Organize videos and images into folders, then find them using thethumbnail gallery. Review media using standard controls.



Illumination

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



Survey Features

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



Hot Keys

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



Write Screen Text

O

Type and store up to 16 pages of on screen text. Customize text color, position and background color.



Capture Footage

Record MPEG video and JPEG images, and zoom up to 3x on video playback.



Sonde Settings

Set the frequency of the Sonde transmitter to 33kHz. 512Hz or 640Hz.



Control Meterage

offset using the meterage key.



Accurately set the meterage zero



Generate Reports

Internal Batteries

inspection reports and video.

Use enbedded reporting software to create detailed inspection reports with a pipe graph to pinpoint defects.

The SOLO PRO+ CCU includes internal batteries

so that it can be used autonomously to view



Setup & Configuration

Easily and quickly configure the SOLO PRO+ CCU to your specific requirements using the various menu options. Set language, date and time, establish file formats and naming conventions, adjust camera parameters.



Offload Data

Copy reports, videos and images to USB or SDHC media for easy transfer to PC and seamless integration with WinCan reporting and querying capabilities.

Alternative Languages

SOLO PRO+ is currently available with keyboards in English, French and German.

Screens Intensity

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



Share Flles

(5) minicam

Wi-Fi enabled to allow remote access of 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 secure, immediate team-wide access online



Joystick Controls

Controlling movement of the pan & rotate camera is smooth and effortless using the joystick control. Perform a 360° endless rotation and pan the camera -/+ 135°.



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ON/OFF

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X C V B N M

PRECISION CAMERAS FOR OPTICAL EXCELLENCE

Highest quality components are used in our camera designs, and our skilled technicians assemble and rigorously test the cameras at our production facility. Built for longevity, the cameras are rugged, with robust and precise connectors, and are engineered to perform with excellent optical qualities.



Axial CAM025

A Minicam best seller, the CAM025 Self-Levelling Axial camera performs reliably in daily use. The stainless steel housing with flexible four high powered spring and heavy duty connector features four high powered, ultra-bright LED Lights.

The housing has an integral, hard wearing, scratch resistant sapphire glass to protect the camera lens. CAM025 is supplied as standard with the SOLOPRO+ Axial System and the SOLOPRO+ Duo System.

TECHNICAL SPECIFICATION		
Product code	CAM025	
Effective Pixels	470 HTVL	
Sensitivity	<1.0 Lux	
Aperture	F2.5/75°	
Illumination Intensity	12.5k Lux at 150	
Pressure Depth Rating	1 BAR (14.50psi)	
Dimensions	12.6" x 1.6" x 1.6"	







Pan, Rotate & Laser CAM050

Continuous 360° rotation and +/-135° pan. Integral distance sensor and twin lasers to enable accurate pipe diameter, defect and object measurement. CAM050 is shipped with Minicam's SOLOPro+50 pipeline video inspection system.

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.

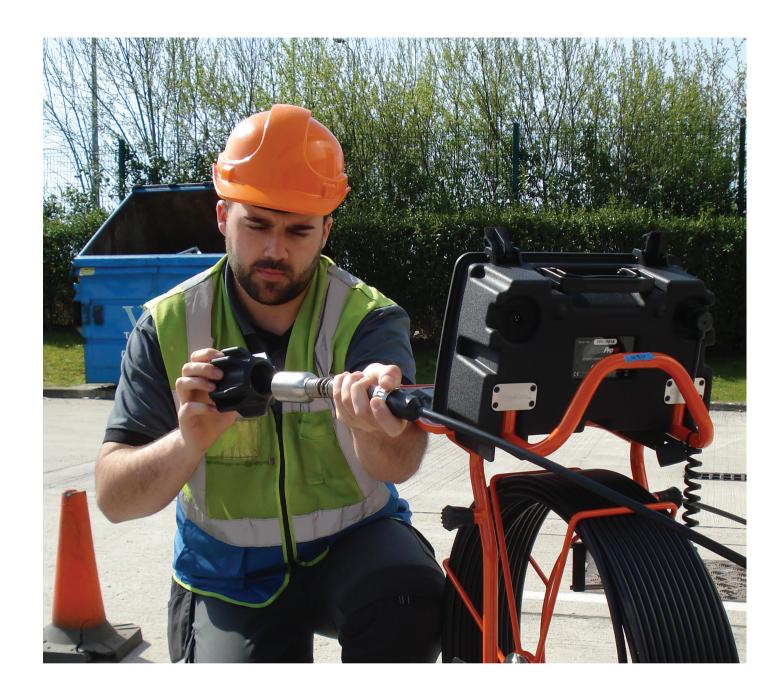
TECHNICAL SPECIFICATION		
Product Code	CAM050	
Pipe Diameter	Greater than 60mm (2.36î)	
Aligned Laser Spacing	Dual aligned front facing / single side	
Camera Resolution	1200 HTVL	
Sensitivity	<1.0 Lux	
Aperture/Field of View	F2.5/75°	
Dimensions	50mm diameter	
Illumination Intensity	12.5k Lux at 150mm	
Pressure Depth Rating	1 bar (14.50psi)	











Roller Skids

Increse 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 centerd in the pipeline at all times.

The roller skids expand the SOLO PRO+ system for use in 6" - 9" pipelines, this enables you to use your push camera inspection system in pipelines that would otherwise require a tractor system. The roller skids allow inspection cameras to navigate multiple corners and bends and increase the inspection range significantly.

Manufactured from stainless steel and ABS plastic, the device is sturdy, rugged and corrosion resistant to withstand the punishment of daily field work.

TECHNICAL SPECIFICATION		
Compatiability	Product Code	
7" Roller Skid for CAM025	ASS-002-009	
7" Roller Skid for CAM026	ASS-001-955	
5" Roller Skid for CAM026	ASS-002-160	
5" Roller Skid for CAM025	ASS-002-008	



Available in two sizes to fit the CAM025 Self Levelling Axial Camera and the CAM026 Pan & Rotate Camera.













ASS-001-955 & CAM026 ASS-001-955 ASS-002-009 ASS-002-160 ASS-002-008 & CAM025





Tilting Table

Adjust the CCU position to suit the needs of the user

Quick and easy to attach, the Tilting Table allows adjustment of the control unit position, to give the user optimal screen viewing and keyboard positions. The table can be tilted 35° forward and 75° backwards, with a full, unobstructed 360° horizontal rotation. No tools are required, simply attach using the adjustable clamps.







TECHNICAL SPECIFICATION	
Product Code	TTC01
Dimensions	14" x 12" x 10.6"
Weight	6.6lbs

All Terrain Wheels

Improved stability for coiler rolling

The All Terrain Wheels attachment provides better stability for the user when manoeuvering 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 are required.



TECHNICAL SPECIFICATION		
Product Code	SPP-ATA	
Dimensions	34" x 10" x 10"	
Weight	3lbs	

Proteus Transport Cases

Dual cut foam cases for safely transporting a CRP90, CRP140 or CPL150S tractor along with a CAM026L or CAM028 camera head and any Proteus lighthead.







Video Input Cable

Connectivity to external video equipment

Allows use of external video equipment to be recorded on SOLO PRO+ Control Unit. This allows the user to take advantage of the embedded reporting software.

TECHNICAL SPECIFICATI	HNICAL SPECIFICATION	
Product Code	SPP-EVL	
Length	6.5 foot	
Weight	0.3lbs	



Lateral Pin Kit

Smooth inspection of incoming laterals

For use with the CAM026 Pan & Rotate camera when attached to the CCP60/100 Compatible Coiler. Simply attach the pin to allow the inspection of incoming lateral pipes. The pin adjusts the direction, and guides the camera smoothly along the pipe. The kit comes with three sizes of pin: small 6", medium 9" and large 12". Fixings and instruction included.





Seesnake® Interface

Exlusively compatible with Minicam control units

Sturdy and robust construction, the Minicam SeeSnake Interface unit quickly and easily connects the Rigid SeeSnake Standard and SeeSnake mini cameras to Minicam's intuitive and advanced control units.

TECHNICAL SPECIFICATION		
Product Code	SSP02	
Compatability	SOLO PRO+ Control Unit	
Dimensions	2" x 10.5" x 9.5"	
Weight	0.3lbs	











Compatible Coiler

Companion accessory to the Proteus System

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 powder coated finish. Centering skids optimize your view in pipes 3" and larger. The CCP coiler comes complete with a set of three skids and a removal tool.

TECHNICAL SPECIFICATION		
Product Code	CCP60 / CCP100	
Temperature Range	-20°c to +50°c	
Dimensions	35" x 14" x 27"	
Weight	47lbs	
Environmental Protection	IP54	



CCU Tilting Table

Customize the CCU position to suit the needs of the user

Quick and easy to attach, the Tilting Table allows adjustment of the control unit position, to give the user optimal screen viewing and keyboard positions. The table can be tilted 35° forwards and 75° backwards, with a full unobstructed 360° horizontal rotation. No tools are required, simply attach using the adjustable clamps.

TECHNICAL SPECIFICATION	
Product Code	TTC01
Dimensions	13" x 12" x 10.6"
Weight	7lbs





Centring Skids

Optimize your view

Centring Skids optimize your view in pipes 3" 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 SPECIFICATION		
Supplied with CCP60 / CCP100		
4 inch Skid		
6 inch Skid		
Protection Skid		
Skid Removal Tool		



Floatation Raft

Pipe inspecion in flowing water just got easier

Eliminate the need for man-entry. The raft features three powerful angled auxiliary LED ultra-bright light modules, to illuminate pipes in excess of 78". Small enough to be lowered down most common sizes of sewer hole cover, the compact design allows inspection capabilities in pipes from 24". An in-built lowering loop makes for quick and easy deployment and retrieval, and the floatation plate ensures the device is perfectly balanced to eliminate rolling.

TECHNICAL SPECIFICATION	
Product Code	FRP01
Dimensions	28" x 16.5" x 8"
Weight	13lbs
IP Rating	IP68





minicam PROTEUS

Proteus Power Battery Pack

Portable power ... where will it take you?

No need to rely on vehicle or mains power. Minicam's unique Proteus Power Battery Pack enables pipeline inspections in the most remote locations with in excess of 5 hours inspection time*. The rugged pack is quick and easy to connect and features output short circuit protection and LED charge status indication. The battery is charged using the standard Proteus power supply unit.





PLEASE NOTE: Charging unit shown above for illustration only, not included with Proteus Power Pack. Charging Unit purchase seperately.

* Battery life dependant on operation conditions

TECHNICAL SPECIFICATION		
Product Code	BPP24	
Dimensions	11" x 4" x 4.7"	
Weight	9lbs	
Optional	Carry Case	

Dangerous goods shipping conformity required - please contact us for details



OPTIONAL EASY ACCESS CARRY CASE

Cable Guide Pulley

For smooth guiding of inspection cable during survey

Reduces wear by preventing kinks and chaffing, and assists in the smooth guiding of inspection cable during your survey. Comes complete with 40 feet of rope and features a quick release mechanism to aid feeding the cable through the rollers.

TECHNICAL SPECIFICATION			
Product Code CGP01			
Dimensions	19" x 3" x 4"		
Rope Length	40'		
Weight	6lbs		



Manhole Top Roller

For smooth guiding of inspection cable during survey

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 ensures the device is perfectly balanced to eliminate rolling.

TECHNICAL SPECIFICATION		
Product Code TRP01		
Dimensions	25.5" x 11" x 5.5"	
Weight 10lbs		





Tractor Cradle

Improved inspection capabilities

TECHNICAL SPECIFICATION

Product Code Dimensions

Weight

The Tractor Cradle adapts Minicam's CPL150S, and CRP140 Tractors 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 39" in diameter.

This robust, steerable, 4-wheel drive cradle is driven by the tractor, 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 Tractors, PCC01 comes supplied with four 8.6" balloon wheels.

PCC01

7.65kg

16" x 10" x 8.6"



UNIQUE GEAR SELECTOR



Tractor Camera Extender

Extends the camera position 4" forwards

The Tractor Camera Extender moves the camera position 4" forwards, extending the camera beyond the tractor. When the camera is positioned 90° downwards, this provides a view of the invert of pipeline, and not the Tractor.



TECHNICAL SPECIFICATION		
Product Code CCE01		
Dimensions	4.5" x 1.9" x 1.9"	
Weight	302g	





Extra down-force and traction for the Tractor

Exclusively compatible with Proteus CPL150S and CRP140 Tractors, the 2.5kg Extra Weight Plate gives the tractor extra down-force to allow for more traction in tricky pipe conditions. Quick to attach, the assembly is supplied with fixing bolts and washers.



TECHNICAL SPECIFICATION		
Product Code	EWP01	
Compatability	CPL150S / CRP140	
Dimensions	10" x 3" x 0.5"	
Weight	2.5kg	
Supplied with Fixing Bolts & Washer		







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; control unit, reel, battery pack and accessory case. Simply wheel the unit to your location, connect a tractor and Camera, 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.



TECHNICAL SPECIFICATION				
Product Code	PTP01	PTP02	PTP03	PTP04
Compatability	RMP100/200	RAP200	RMP300/RAP300	Proteus Lite
Dimensions	25.5 x 45 x 29.5"	25.5 x 45 x 29.5"	25.5 x 45 x 34"	29.5 x 45 x 19"
Weight	9.75kg	9.75kg	10.5kg	13.5kg

PLEASE NOTE: Equipment shown on trolley NOT included with PTP01/02/03/04 *Battery life dependant on operating conditions.

Remote Controllers

Instant control with Bluetooth® wireless connectivity

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





TECHNICAL SPECIFICATION	
Product Code	RCP4
Compatability	RAP300/200
Dimensions	3.4 X 5.7 X 1"
Weight	175g

TECHNICAL SPECIFICATION		
Product Code	RJP	
Compatability	ACR350/500,RAP500/300/200	
Dimensions	3.4 X 5.7 X 1"	
Weight	175g	





Brick Egg Stabilizer

Eliminates rolling over of the Tractor

A simple quick fit to our Proteus tractor, the Brick Egg Stabilizer stops the tractor from rolling over during inspections in pipes with an egg-shaped profile. Exclusively compatible with Minicam's Proteus CRP300, CPL150S and CRP140 Tractors.

Compatibility:

BEP300 fits Proteus CRP300 BEP150/140 fits Proteus CPL150S and CRP140





TECHNICAL SPECIFICATION		
Product Code	BEP300	
Compatability	CRP300	
Dimensions	17" x7" x 8.6"	
Weight	2.95g	

TECHNICAL SPECIFICATION			
Product Code BEP150/140			
Compatability	CPL150S/CRP140		
Dimensions	15" x 7" x 8"		
Weight 2.05kg			

Cable Reel Guide

Smooth Friction-Free Cable Guiding

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 motorized and manual 980 feet and 650 feet cable reels.

TECHNICAL SPECIFICATION		
Product Code	CGP300	CGP200
Compatability	RAP300/ RMP300	RAP200/ RMP200
Dimensions	21" x 19" x 6.8"	21" x 14.5"x 6.8"
Weight	3.5kg	2.9kg





Van Guide Pulley

Smooth friction-free cable guiding

Reduces friction and provides additional guidance for the cable when paying out and rewinding. Exclusively for use with Minicam Motorized and Manual, 980 feet and 650 feet cable reels.

TECHNICAL SPECIFICATION		
Product Code	VGP01	
Compatability	RMP200/300 & RAP200/300	
	& RAP200/300	





Camera Elevation Platform

Increase Your Inspection Capabilities

The telescopic elevator is quick to attach to the CRP300 tractor and can be manually moved up or down to increase inspection capabilities up to 86". Interface provides easy connection for various combinations of camera, auxiliary lights and pods.





TECHNICAL SPECIFICATION		
Product Code	CEP300	
Connections	Camera connection, Lifter connection, 2x additional lamp connections, 1x additional lamp connector with backeye camera	
Top Camera Position	43" (pipe center) using pneumatic balloon wheels	
Mid Camera Position	Approx 32.6" (pipe center) with extended plate	
Low Camera Position	22" (pipe center) with pneumatic wheels	
Dimensions	5.5" x 5" x 18.7"	
Weight	5.7kg	



Reel Bracket

Use the reel as a CCU holder, for portability in remote areas

This lightweight tubular bracket is 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. Available in two sizes.

TECHNICAL SPECIFICATION		
Product Code	RBP01	TBP02
Compatability	Fits 650' Reel	Fits 980' Reel
Dimensions	14" x 8.5" x 4.6"	16" x 8.5" x 4.6"
Weight	675g	735g





Pressure Kit

All you need to purge a Proteus Tractor and camera head

Pressurisation is safe, quick and easy. Two kits are available: Standard CO_2 and a Nitrogen version for ATEX equipment. Supplied in a handy padded carry case. Replacement cylinders can be purchased separately.

TECHNICAL SPECIFICATION		
Product Code	Description	
PKP01	Standard CO₂ Pressure kit	
PKP02EX	ATEX Nitrogen Pressure Kit	



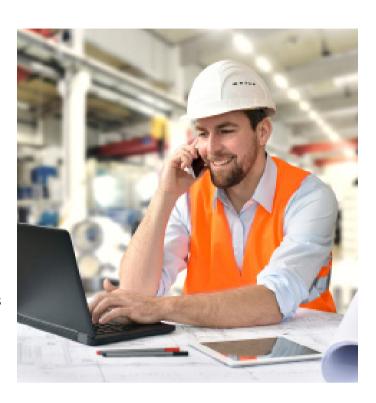
AFTER SALES SUPPORT

We are right behind you all of the way

We pride ourselves on our commitment to always going the extra mile with our customer care.

After sales support and Service and Repair is available from 8am until 5pm Monday to Friday and Saturday by appointment.

Operator and Service Training is available to customers and their employees, at our headquarters, your company headquarters or your preferred location. Contact us for full details and costs.





PARTS PORTAL

Quick and easy online ordering and worldwide delivery.

Appointed Minicam Partners are given access to the online part shop which has the full range of genuine Minicam spares and accessories, all available to order online with same day dispatch if ordered before 3pm*. The portal stocks parts for all Minciam systems and equipment.

*Terms and conditions apply - contact us for details

CONTACT US

Whether you're interested in product features, purchasing, service or in person demo - our experienced team is ready to answer all your questions.

Business hours Monday to Friday: 8am - 5pm Saturday: By appointment Sunday: Closed

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