

NEW

Proteus

MiniCam

PIPELINE CRAWLER INSPECTION SYSTEM

INNOVATIVE ALL-IN-ONE SYSTEM

DESIGNED FOR RELIABLE SELF-CONTAINED INSPECTIONS





PROTEUS LITE PROVEN RELIABILITY MODULAR CAPABILITY

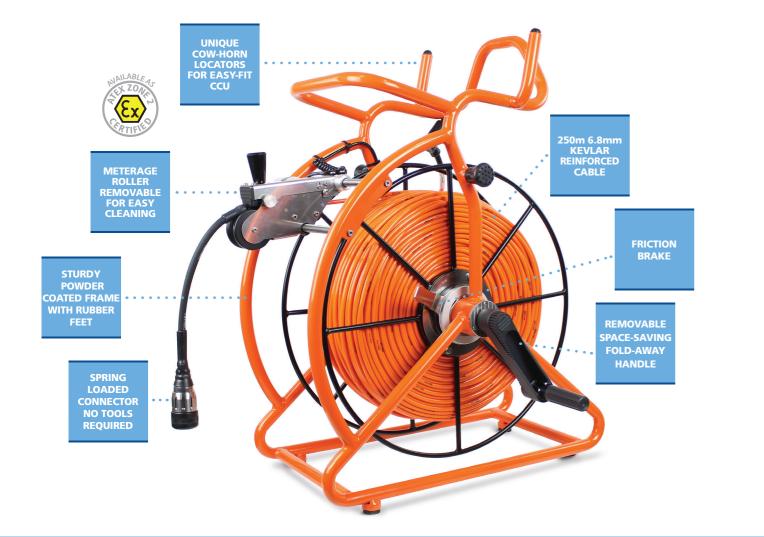
Mini-Cam's NEW Proteus Lite brings together, the tried and trusted performance and reliability of the Proteus family, in a value for money, entry level system. Designed and developed in-house, Proteus Lite is the ideal starter kit for a oneman operation, integration into a small inspection van, or a 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.

Rugged, flexible and intelligent, feature rich Proteus Lite takes your productivity to the next level, enhancing your business with a solid reputation for professional inspections and providing increased profitability from your investment. Future proof and totally modular, when your business budget allows, simply upgrade your Proteus Lite with a larger or smaller crawler, extra cameras and auxiliary lights, or one of the many other Proteus compatible accessories available.

Renowned throughout the industry, Proteus systems are making easy work out of challenging environments in 35 countries worldwide, performing rigorous pipeline inspections in harsh and remote conditions day after day, after day. Rest assured that your business is in safe hands with Mini-Cam products, and we'll be right behind you with our enviable service and impeccable after-care.



www.minicam.co.uk





Designed in-house, this sturdy cable reel is Mini-Cam's latest innovation. The core of the Lite system, RMPL250 is engineered to the same exacting standards as our mainline Proteus equipment. 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.











REEL

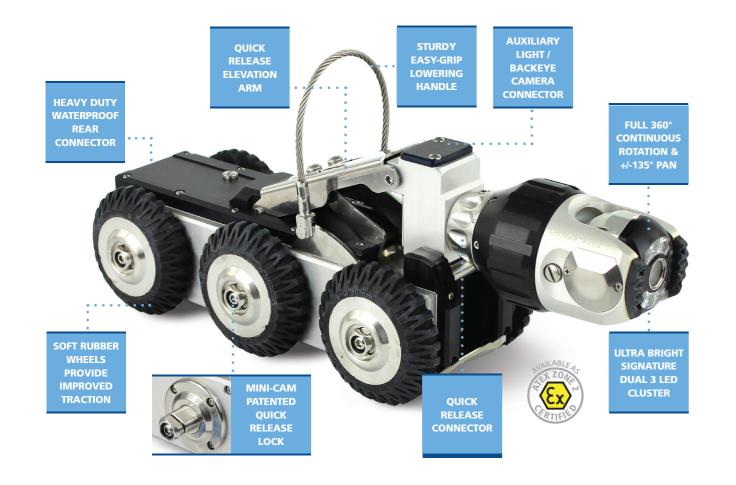
RMPL250

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 (see page 16) allows adjustment of the control unit position, to give the user optimal screen viewing and keyboard positions.









CPL150 with 140mm Extra Large Wheels **Elevator Fully Raised**



Mini-Cam's water resistant camera connectors and rear cable connectors come as standard, as does our quick release wheel lock, and soft rubber wheels, engineered for improved traction. Built to perform reliably in harsh conditions, the modular configuration of the Proteus Lite system means CPL150 can be enhanced with cameras and accessories to extend it's inspection capabilities.

Integration with additional Proteus wheels and accessories enables the CPL150 to be used for pipe inspections from 150mm upwards.

CRAWLER

CPL150

Modelled on our best selling Proteus CRP150 crawler, this Lite version is the perfect companion to the RMPL250 Cable Reel. CPL150 has the same professional grade quality, reliability and accuracy that our customers expect from Proteus products, and features a specially designed quick release elevator arm, sturdy lowering handle and in-built connector for an optional auxiliary light or auxiliary light with backeye camera.





Soft Rubber Quick Release Wheels

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



OPTIONAL CAMERAS FOR PROTEUS LITE







Pan, Rotate & Zoom CAM028

PAN & ROTATE CAMERA

The Proteus Lite system comes complete with CAM026 as standard. This precision engineered Pan & Rotate camera features 360° rotation, +/- 135° pan and our signature dual three LED cluster of high powered ultra-bright lights, which provide optimum illumination for better image clarity.



CAMERA

CAM026

FULL 360° CONTINUOUS **ROTATION &** +/- 135° PAN

HEAVY DUTY QUICK RELEASE CONNECTOR

MUCH MORE THAN MEETS THE EYE.

Feature rich, Mini-Cam'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 Lite system. **Functionality at your fingertips.**





FUNCTIONALITY **AT YOUR FINGERTIPS**

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



Screens Intensity The brightness, colour and backlight intensity of the internal display can be adjusted to suit the environment in which the

Write Screen Text

Type and store up to 16

pages of on-screen text.

position and background

Т

controls crawler

right hand joystick

control. Perform a

Illumination

LEDs

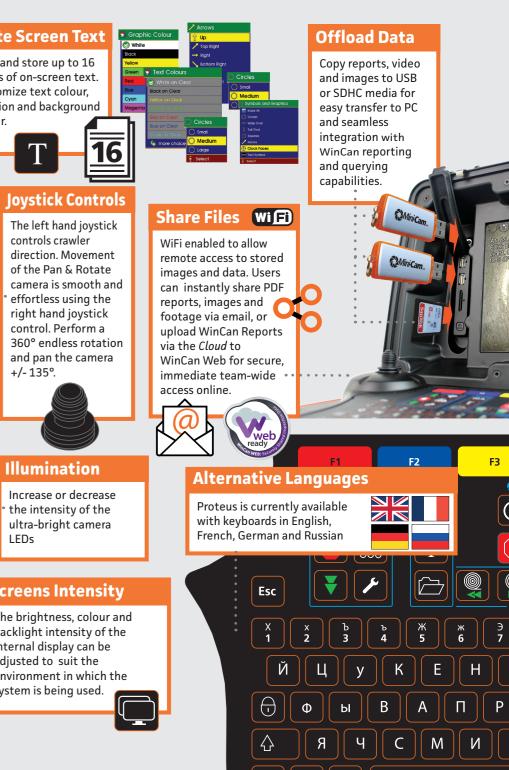
+/-135°.

Customize text colour,

colour.

Capture Footage

12



REPORTING SOFTWARE

ProPIPE+ reporting software, developed by our in-house team of software engineers, enables accurate inspection of sewers with easy post-processing of inspection data. The current version generates PDF files and allows users to create professionally presented, detailed reports with illustrated pipe diagrams and screen shots, and also features a file sharing feature (see opposite).

Uncomplicated and efficient, ProPIPE+, WinCan Embedded and WinCan Web software is pre-installed as standard on the Proteus Lite control unit, giving the user the ability to perform comprehensive inspection reports on site and instantly share them with colleagues and customers. This gets the results to the client faster, making your business ultra efficient, reducing your administration costs and eliminating those long hours in the office.

Mini-Cam's Proteus Lite control unit is WiFi enabled to allow remote access to stored images and data. Users can simply drag and drop files

> from control unit to PC, or upload to the Cloud directly on-site. ProPIPE+ doesn't require any additional software to view reports on a PC, simply open the file in Microsoft[®] Word.

Pro**PIPE (-)** REPORTING SOFTWAR

- SAVE TIME AND MONEY
- CREATE A FULL REPORT INSTANTLY. ON-SITE

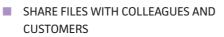
PIPE

- ABILITY TO CREATE CUSTOMER SPECIFIC REPORT TEMPLATES
- GENERATE PDF REPORTS
- RE-DESIGNED PAGES FOR EASIER READING
- DETAILED PIPE DIAGRAM PINPOINTS DEFECTS
- SHARE FILES VIA EMAIL



- DATABASE CAPABILITIES
- WRc3, WRc4 & WRc5 COMPLIANCE
- GIS INTEGRATION
- ADVANCED TECHNOLOGY MODULES
- ENHANCED REPORTING
- SUPPORT FOR NETWORK INSTALLATION
- SUPPORT FOR ENTERPRISE DATABASE (Oracle, SQL)





- SHARE PDF REPORTS, IMAGES AND FOOTAGE VIA EMAIL
- UPLOAD WINCAN REPORTS VIA THE CLOUD TO WINCAN WEB



The current release of ProPIPE+ Reporting Software and WinCan Embedded now includes the new File Share feature. Quick and simple to use, with just a 3-step menu selection, users can instantly share PDF reports, images and footage via email, or upload WinCan

You Tube

View ProPIPE+ video footage on our YouTube Channel MinicamTubeUK





WinCan Embedded software comes pre-installed as standard on Proteus Lite systems

ProPIPE+ and



SOFTWARE



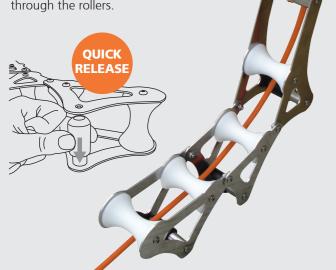
Reports to WinCan Web for secure, immediate, team-wide access online. All that is required to start sharing with colleagues and customers is a 3G or 4G Wi-Fi connection. Users can create the hot-spot using their smart phone.



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 12metres of rope and features a quick release mechanism to aid feeding the cable through the rollers.



Technical Specifications	
Product Code	CGP01
Dimensions LxWxH	485 x 75 x 105mm
Rope Length	12metres
Weight (inc rope)	2.8kg

CCU TILTING TABLE

Customise 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 Specificatio	Technical Specifications	
Product Code	TTC01	
Dimensions LxWxH	350 x 300 x 270mm	
Weight	3kg	

COMPATIBLE COILER

Push rod coiler CCP60R with removable self levelling camera head. Designed to plug directly into the Proteus Lite CCU. Also available as CCP60D (Duo) allowing the Pan & Rotate camera (CAM026) supplied with the Proteus Lite crawler to be attached. Robust construction with a powder coated finish. Can be used autonomously with the CCU on internal batteries.



ACCESSORIES



Technical Specifications		
Product Codes	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	

PROTEUS POWER BATTERY PACK

Portable power... where will it take you?

No need to rely on vehicle or mains power. Mini-Cam'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



Please Note: Charging unit shown above for illustration only, not included with Proteus Power Pack. Charging Unit purchased separately. *Battery life dependant on operating conditions.

Technical Specifications		
Product Code	BPP24	
Dimensions L x W x H	280 x 100 x 120mm	
Weight	4kg	
Optional	Carry Case	

Dangerous goods shipping conformity required - please contact us for details



easy to connect and features output short circuit protection and LED charge status indication, It is charged using the standard Proteus power supply unit.



CRAWLER CRADLE

Improved inspection capabilities

The crawler cradle adapts Mini-Cam's CPL150, CRP140 and CRP150 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 CPL150, CRP150 and CRP140 crawlers, PCC01 comes supplied with four 220mm balloon wheels.



View on our YouTube Channel MinicamTubeUK



For heavily silted pipes we recommend the optional 250mm Balloon Wheel (QRW250/140/150), which are also required to centralise the crawler in 1000mm pipes.



ACCESSORIES





Technical Specifications		
Product Code	PCC01	
Compatibility	CPL150/CRP150/CRP140	
Dimensions LxWxH	410 x 265 x 220mm	
Weight	7.6kg	
Fixings	2 Axle Adaptors & Bolts	

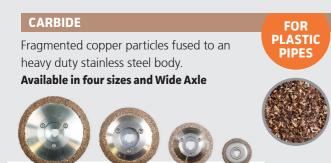
CRAWLER WHEELS

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

SOFT BLACK RUBBER

MPROVED Black, soft rubber tyres developed to provide TRACTION improved traction in regular pipes. Available in four sizes and Wide Axle





EXTRA WIDE

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

Available in Soft Rubber, Carbide and High Grip

HIGH GRIP

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

PNEUMATIC BALLOON

HEAVY Heavy duty, 250mm wide tyres designed DUTY to improve performance on our large Proteus CRP300 crawler. Optional for Crawler Cradle PCC01. Available in one size and Wide Axle



FORWET

& GREASY

PIPES

RUGGED

QUICK RELEASE LOCK

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

You Tube View the Changing Wheels "HOW-TO" video at MinicamTubeUK

PROTEUS LITE

	Video Format	PAL	
	Battery	Lithium-Ion (CCU stand alone)	
	Battery	Lithium-Ion (CCU and Compatible Coiler)	
	Charging	Mains power (100-240 Vac) or vehicle po (12 or 24 VDC) using supplied adaptors	
Ш	Display	10.4" XGA (1024 x 768 pixels) Sunlight v	
CCU208 CONTROLLER	Keyboard	Full QWERTY ^A style membrane keyboard arrow keys for navigation and separate ju for camera and crawler control.	
6	Video Recording	MPEG4 (WinCan compatible)	
Ŭ	Image Capture	JPEG (live or from recorded video)	
8	Text Overlay	16 page (selectable text and colours)	
D2	Internal Memory	32 GB (expandable to 128 GB)	
С С	External Media SDHC and USB 2.0 Memory Stick		
	Language Support	Multiple	
	Connections	Power and Cable Reel	
	Environmental Rating	IP54	
	Weight		
	Dimensions	(W x H x D) mm	
	Construction	Welded Steel	
RMPL250 REEL	Finish	Powder Coated	
9	Distance Counter Units	Feet, Metres	
ľ ľ	Controls	Friction Brake	
Ę	Weight		
	Dimensions	(L x W x H) mm	
	Pipe Diameter	150mm and larger	
	Pressure Depth Rating	1 bar (14.50psi)	
E H	Built-in Elevator	Manual	
Z	Quick Change Wheel Lock		
CPL150 CRAWLER	Optional Large Wheels	4 size options	
	Multi-Frequency Sonde Transmitter		
Ē	Inclination Sensor		
E C	Heavy Duty Connector		
	Weight		
	Dimensions	(L x Wx H) mm	

SPECIFICATION



PROTEUS LITE

CONTINUED FROM PREVIOUS PAGE

	Sensor	1/4" colour CCD with DSP	
	Effective pixels	512 x 582	
벁	Resolution	470 HTVL	
TA	Sensitivity	< 1.0 Lux	
BC	Aperture / field of view	F2.5 / 75°	
N S	Image Orientation	Auto-levelling	
PA	Size	74mm (2.9in) dia	
)26	Illumination System	6 LED	
CAM026 PAN & ROTATE	Illumination intensity	Adjustable (to 12.5K Lux at 150mm)	
C P	Construction	Aluminium / Stainless steel	
	Pipe compatibility	150mm (6") and larger	
	Pipe adaptor kit	6" / 8 " Skids	
ARE	ProPIPE+ Reporting		
T V	WinCan Embedded		-
SOFTWARE	WinCan Web		
	Reel-to-CCU cable		
IES	Vehicle power adaptor		
OR	Mains power adaptor		
ESS	Memory	8 GB USB Memory stick / 8 GB SDHC card	
ACCESSORIES	Accessory case	with Centering Skids	
	Mini-Cam Lanyard		
	Memory Card upgrade	16MB / 32MB	
IES	Cable Guide Pulley	Product Code: CGP01	
В.	CCU Tilt Table	Product Code: TTC01	
OPTIONAL ACCESSORIES	Proteus Power battery pack	Product Code: BPP24	
	Crawler Cradle	Product Code: PCC01	
	Proteus Performance Wheels	See page 20	
	Compatible Coiler	Product Code: CCP60/CCP100	
	Roller Skids	130mm / 180mm (for use with Comp Coiler)	
	All Terrain Wheels	Product Code: SPP-ATA (for use with Comp Coiler)	



Standard

Optional

Δ Alternative languages available (details on request)



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Demonstration Showroom & Custom Van Fits

5 minute drive from our Head Office

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