



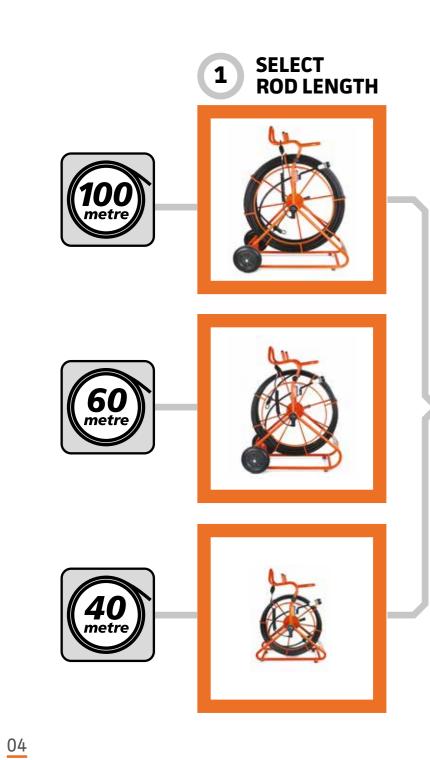
# TRIED & TESTED THE SOLOPro+ SYSTEM TICKS ALL THE BOXES!

Mini-Cam's industry acknowledged reputation for innovative pipeline Inspection solutions extends back over 20 years. The SOLOPro+ Push Camera System is an amalgamation of two of our best-selling systems; SOLOPro which was the Axial camera version and SOLOPro360 which featured the Pan & Rotate camera. The two systems were merged and re-branded as SOLOPro+, now one of the industry's leading systems both in the UK, and in over 35 countries worldwide.

# ENGINEERED TO MAKE EASY WORK OUT OF CHALLENGING ENVIRONMENTS

Designed, developed, and manufactured in-house, SOLOPro+ meets the needs of your business in the real world: a system which is highly affordable, reliable, and fully supported by our experienced technicians, and enviable aftercare service. The system is available in 3 rod sizes, with a choice of cameras and features ProPIPE+, WinCan Embedded and WinCan Web Reporting Software as standard. To enhance the system a range of optional accessories is also available.







# **SYSTEM CONFIGURATION**

**ADD CONTROL UNIT** 











**Roller Skids** 



Tilting Table

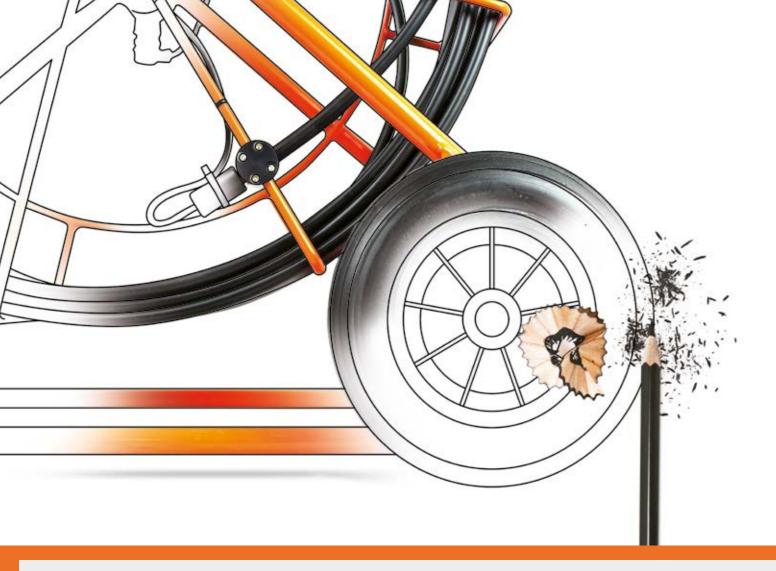


**Lateral Pin Kit** 





**All Terrain Wheels** 



# **ENGINEERED TO PERFORM**

Highest quality components are used in all Mini-Cam products, and our skilled technicians build each system by hand to our exacting standards.

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















### **MUCH MORE** THAN MEETS THE EYE.

Feature rich, Mini-Cam'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 the SOLOPro+ system. Functionality at your fingertips.

















# **FUNCTIONALITY**

### **AT YOUR FINGERTIPS**

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

**Survey Features** 

on-site reports.

Access embedded reporting

software to create detailed

#### **Control Meterage**

Accurately set the meterage zero offset using the meterage key.

#### **Review Footage**

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

#### **Hot Keys**

Intuitive, user-friendly, multi-function keys. The colour coding mirrors the key to the on-screen menu.

В

N

#### **Capture Footage**

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



#### **Write Screen Text**

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



#### Illumination

Increase or decrease the intensity of the ultra-bright camera



#### **Iovstick Control**

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°



#### **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.

#### **Share Files** Wi (Fi)

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.





#### **Alternative Languages**

SOLOPro+ is currently available with keyboards in English,



# French, German and Russian

# ПРОЛД

<u>А Я Ч С М И Т Ь Б</u>

### **Generate Reports**

Use ProPIPE+ Reporting software to create a detailed inspection report with a pipe graph to pinpoint defects.



### **Setup & Configure Preferences**

Easily and quickly configure the SOLOPro+ CCU 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 themes, enable power saving options and update firmware.



#### **Sonde Settings**

Mini Cam.

Set the frequency of the sonde transmitter. Selectable frequencies of 33kHz, 512Hz and 640Hz. is being used.



#### **Screens Intensity**

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



### **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 newly released version generates PDF files and allows users to create professionally presented, detailed reports with illustrated pipe graphs 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 SOLOPro+ control unit, giving the ability to create 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 SOLOPro+ 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.

> > ProPIPE+ and WinCan Embedded software comes pre-installed as standard on SOLOPro+ systems



- SAVE TIME AND MONEY
- CREATE A FULL REPORT INSTANTLY, ON-SITE
- ABILITY TO CREATE CUSTOMER SPECIFIC REPORT TEMPLATES
- GENERATE PDF REPORTS
- RE-DESIGNED PAGES FOR EASIER READING
- DETAILED PIPE GRAPH 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 FILES WITH COLLEAGUES & CUSTOMERS
- SHARE PDF REPORTS, IMAGES & FOOTAGE VIA EMAIL
- UPLOAD WINCAN REPORTS VIA THE CLOUD TO WINCAN WEB





The latest release of ProPIPE+ Reporting Software and WinCan Embedded now includes the new File Share feature. Ouick 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 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.



#### View ProPIPE+ footage on our YouTube Channel - MinicamTubeUK

**SHARE** 

**FILES** 







# COILER SPP100-60-40

The coiler frame is the carrier for the coiled rod, the camera and the CCU. Mini-Cam 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 SOLOPro+ frame for it's reliability and longevity, 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 resistant camera connector houses the multi-frequency sonde, with selectable frequencies of 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.











To provide you with the best system to suit your inspection requirements, Mini-Cam coilers are available in 3 rod lengths. The mid -size 60 metre and the large 100metre come with wheels for safe and easy mobility.

Mini-Cam use only the highest grade push rod.
Manufactured to our exacting standards, the rod is semi-rigid with a tough, durable outer sheath. Manufactured to perform reliably in harsh conditions.



## 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 UK production facility. Built for longevity, the cameras are rugged, with robust and precise connectors, and are engineered to perform with excellent optical qualities.



# CAM025 AXIAL

A Mini-Cam best seller, the CAM025 Self-Levelling Axial camera performs reliably in daily use. The stainless steel housing with flexible 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.





#### **Axial Camera**

Product Code CAM025

See page 28 for technical specification



Mini-Cam's CAM026 Pan & Rotate camera features continuous 360° rotation and +/- 135° pan.
Our signature dual clusters of three high powered ultra-bright LED lights provide optimum illumination





for better clarity of image. An integral, hard wearing, scratch resistant sapphire glass protects the camera lens. CAM026 is supplied as standard with the SOLOPro+ Pan & Rotate system and the SOLOPro+ Duo system.



CAM026

#### Pan & Rotate Camera

Product Code

See page 29 for technical specification



# OPTIMIZE YOUR VIEW WITH CENTERING SKIDS

Centering skids optimize your view in pipes of 75mm and larger. For use with Axial camera CAM025, the skids are quick and simple to attach using the supplied tool.

The adaptor kit with three centering skids and skid removal tool is supplied as standard with all SOLOPro+ Axial systems and SOLOPro+ Duo systems.



Cei	Centering Skids - Product Codes			
Α	4inch Skid	ASS-000-001A		
В	6inch Skid	ASS-000-002A		
С	Protection Skid	ASS-000-003A		
D	Skid Removal Tool	ASS-000-667		

# SOLOPro+**SPP100**•60•40**EX**



SOLOPro+ EX 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 2 and other explosion-risk environments much easier and safer than alternative methods, giving you a clear, sharp eye into the unknown, without introducing risk through the use of electronic devices in explosive atmospheres.

SOLOPro+ EX provides peace of mind safety, with the same professional grade quality, reliability and accuracy Mini-Cam customers expect from the SOLOPro+ label.











UNCOMPROMISING

**PERFORMANCE** 

ENGINEERED FOR

**EXPLOSION-RISK** 

**ENVIRONMENTS** 

**ATEX CAMERAS** 

**AND SAFETY** 





### **ROLLER SKIDS**

#### 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 centred in the pipeline at all times.

The roller skids expand the SOLOPro+ system for use in 15cm to 45cm (6"-18") 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 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.

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

Technical Specifications			
Compatibility	Product Code		
180mm Roller Skid for CAM025	ASS-002-009		
180mm Roller Skid for CAM026	ASS-001-955		
130mm Roller Skid for CAM026	ASS-002-160		
130mm Roller Skid for CAM025	ASS-002-008		









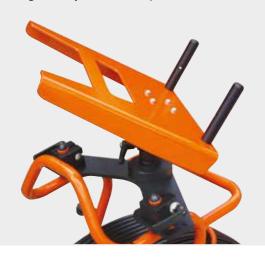




# TILTING TABLE FOR CCU

## 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 Specifications			
Product Code	TTC01		
Dimensions LxWxH	350 x 300 x 270mm		
Weight	3kg		





# ALL TERRAIN WHEELS

#### Improved stability for coiler rolling

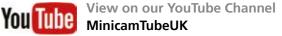
The All Terrain Wheels attachment provides better stability for the user when manoeuvring a coiler through rocks, grass, woodland, mud and pavement. Sturdy construction, portable and easy-to-store. Quick and easy to attach and remove, no tools are required.

**Please Note**: The All Terrain Wheels attachment is not intended for use on stairs or kerbs.



Technical Specifications		
Product Code	SPP-ATA	
Width	860mm	
Depth	265mm	
Height	265mm	
Weight	1.5kg	





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# COMPOSITE VIDEO INPUT CABLE

## Connectivity to external video equipment

Allows use of external video equipment to be recorded on SOLOPro+ control unit. This allows the user to take advantage of the embedded reporting software.



# Technical Specifications Product Code SPP-EVL Length 2m Weight 125g

# SEESNAKE<sup>®</sup> INTERFACE

## **Exclusively compatible with Mini-Cam Control Units**

The Mini-Cam SeeSnake® Interface unit quickly and easily connects the Rigid SeeSnake® Standard and Rigid SeeSnake® Mini cameras to Mini-Cam's intuitive and advanced SOLOPro+ Control Units.

Also available to fit Mini-Cam Proteus™ Control Units - Product Code: SSP01



Technical Specifications			
Product Code	SSP02		
Compatibility	SOLOPro+ Control Unit		
Dimensions WxLxD	50 x 268 x 40mm		
Weight	115g		



## **SPECIFICATIONS SOLOPro+**

			SOLOPro + Axial	SOLOPro + Pan & Rotate	SOLOPro + Duo
	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 LCD (800 x 600 pixels) Sunlight viewable			
TROLLER	Keyboard	Full QWERTY <sup>A</sup> style membrane keyboard with arrow keys for navigation and separate joystick for camera control.	•	•	
	Video Recording	MPEG4 (WinCan compatible)			
S S	Image Capture	JPEG (live or from recorded video)			
	Text Overlay	16 page (selectable text and colours)			
12	Internal Memory	32 GB (expandable to 128 GB)			
CCU210	External Media	SDHC and USB 2.0			
2	Language Support	Multiple			
	Connections	Power and Coiler			
	Environmental Rating	IP54			
	Weight		3 kg (6.6lb)	3 kg (6.6lb)	3 kg (6.6lb)
	Dimensions	(W x H x D) mm (W x H x D) inches	435 x 250 x 140 17.1 x 9.8 x 5.5	435 x 250 x 140 17.1 x 9.8 x 5.5	435 x 250 x 140 17.1 x 9.8 x 5.5
	Construction	Welded Steel			
	Finish	Powder Coated	_		
	Distance Counter Units	Feet, Metres		•	
<u>~</u>	Controls	Friction Brake			
COILER	Weight	40m/60m/100m	40m 15kg (33lb) • 60m 20kg (44lb) • 100m 30kg (66lb)		.00m 30kg (66lb)
[ S	Sonde	33 kHz / 512 Hz / 640 Hz	-	_	
	Dimensions	40m (130') / 60m (200') / 100m (330') (L x W x H) mm (L x W x H) inches	40m (130') 530 x 365 x 690 20.8 x 14.3 x 27.1	60m (200') 690 x 370 x 890 27.1 x 14.5 x 35	100m (330') 790 x 370 x 960 31.1 x 14.5 x 37.7
	Imager	1/4" colour CCD with DSP (Digital Signal Processor)		_	
	Effective Pixels	512 x 582		_	
	Resolution	470 HTVL		_	
A	Sensitivity	< 1.0 Lux		_	
AXIA	Aperture / Field of View	F2.5 / 75°		_	
	Image Orientation	Auto-levelling		_	
CAM025	Size	41mm (1.16") diameter		_	
ξ	Illumination System	4 LED		_	
Z.	Illumination Intensity	Adjustable (to 12.5k Lux at 150mm)		_	
	Construction	Stainless Steel		_	
	Pipe Compatibility	50mm (2") and up		_	
	Pipe Adaptor Kit	3" / 4" /6" Skids		_	
			1	L	

			SOLOPRO + Axial	SOLOPRO + Pan & Rotate	SOLOPRO + Duo
ROTATE	lmager	1/4" colour CCD with DSP	_		
	Effective pixels	512 x 582	_		
	Resolution	470 HTVL	_		
	Sensitivity	< 1.0 Lux	_	•	
لغا	Aperture / field of view	F2.5 / 75°	_		
PAN	Image Orientation	Auto-levelling	_		
	Size	74mm (2.9in) dia	_	•	
92	Illumination System	6 LED	_		
CAM026	Illumination intensity	Adjustable (to 12.5K Lux at 150mm)	-		
A	Construction	Aluminium / Stainless steel	_		
U	Pipe compatibility	150mm (6") and up	-		
	Pipe adaptor kit	6" / 8 " Skids	_		
<b>#</b>	ProPIPE+ Reporting		•	•	
SOFTWAR	WinCan Embedded		-	•	
	WinCan Web		•	•	•
	Email and File Share from CCU		•	•	
S	Reel-to-controller cable			•	
~	Vehicle power adaptor				
S	Mains power adaptor				
CESSORIES	Memory	8 GB USB Drive / 8 GB SDHC card			
ACC	Accessory Case	with Centering Skids			
⋖	Mini-Cam Lanyard				
OPTIONAL	Composite video input cable	Product Code: SPP-EVL			
	Memory card upgrade	16GB/32GB			
	Roller skids	130mm / 180mm (see page 22-23)			
	Tilting Table	Product Code: TCC01 (see page 24)			
	All Terrain Wheels	Product Code: SPP-ATA (see page 25)			

Standard

Optional

Not applicable

Δ Alternative languages available (details on request)

# **SERVICE SUPPORT** FOR JUST WHEN YOU NEED US MOST

Mini-Cam's reputation for efficient, quality service is now mobile nationwide\*. Our dedicated, highly skilled service technicians are available to offer routine maintenance and emergency repairs, both on-site and at your depot.

Our Service Support vehicle is stocked with a range of replacement parts and fault finding equipment that will cover most eventualities. Mini-Cam customers who need an urgent repair, can take advantage of this service.

- Competitive Pricing
- Rapid Service Turn-Around
- Loan equipment provided\*\* whilst yours is repaired on-site
- Replacement parts readily available
- Minimize downtime



#### **SERVICE SUPPORT LINE**

For further information and to request a Service Support visit please contact: Glenn Guest - Service Manager Office: 01942 270524

8am – 5pm Monday to Friday Email: servicevan@minicam.co.uk

\*Service Support coverage is Mainland UK only and does not include Scottish Highlands, Scottish Islands, Isle of Wight, Isle of Man, Dublin, Eire, Channel Islands.\*\*Subject to availability.

### **AFTER SALES SUPPORT**

#### WE ARE RIGHT BEHIND YOU ALL OF THE WAY!



At Mini-Cam we pride ourselves on our commitment to going the extra mile with our customer service and after sales support. Full telephone support for sales and administration enquiries is available from 8am until 5pm Monday to Thursday and 8am until 3.45pm on Friday.

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

#### **PARTS E-SHOP**

### QUICK, EASY ONLINE ORDERING AND WORLDWIDE DELIVERY\*

Appointed Mini-Cam Partners are given access to the online parts shop which has the full range of genuine Mini-Cam spares and accessories, all available to order online with same day despatch if ordered before 3pm\*. The e-shop stocks parts for all Mini-Cam systems and equipment. www.minicam.co.uk









#### CONTACT INFORMATION

#### **Head Office & Production**

#### Postal Address

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#### Switchboard

Telephone +44 (0) 1942 444555 Facsimile +44 (0) 1942 273735

#### Hours of Business

Mon - Thur 8.00am - 5.00pm • Fri 8.00am - 3.45pm Saturday & Sunday Closed

#### **General Enquiries**

Email info@minicam.co.uk

#### Service Enquiries

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#### UK Sales

Email greg.guest@minicam.co.uk
Email matthew.stark@minicam.co.uk

#### International Sales

Email sven.breitenfeld@minicam.co.uk

#### **Demonstration Showroom & Custom Van Fits**

5 minute drive from our Head Office

#### Postal Address

Mini-Cam Limited

Innovation House, Unit C, Kirkstead Way, Golborne, Warrington, WA3 3PY, United Kingdom

Telephone +44 (0) 1942 444555

#### Custom Van-Fits Enquiries

Email greg.guest@minicam.co.uk
Email matthew.stark@minicam.co.uk

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#### Discover more InPipe Innovation at minicam.co.uk



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