

P350 flexitrax[™] system

FLEXIBILITY AND RELIABILITY IN A TRULY PORTABLE SYSTEM



>Pearpoint®



RELIABILITY WHERE YOU NEED IT

Weatherproof construction that's designed to withstand the toughest conditions

FLEXISIGHT[™] MANAGER SOFTWARE

Edit your full SVGA videos on a PC or laptop. Convert the reports into Microsoft® Word format.



OUTSTANDING PICTURE QUALITY

Ultra-bright LEDs and highresolution cameras built on a powerful digital video platform.

P350 flexitrax[™] system – the advanced and complete portable crawler system for the pipeline inspection professional.

Most motorized inspection systems are complex and bulky. Many are difficult to transport and install, prone to weather damage and are complicated to operate.

The P350 flexitrax[™] offers inspection professionals the ultimate portable crawler system. This advanced and affordable system features the simplicity and transportability of a pushrod system while delivering the functionality and performance associated with complex and expensive crawler systems.

The P350 is a modular system, designed to meet the tough requirements of most inspection environments.

OUTSTANDING PICTURE QUALITY

The P350 flexitrax features ultra-bright LEDs and high-resolution cameras built on a powerful digital video platform. The P350 flexitrax system supports three interchangeable, high-resolution cameras. Each camera features the latest generation, ultra-bright white LEDs that ensure a clear picture and a long, maintenance-free life. The digital video is displayed on the command module's ultra-bright, 200mm (8") industrial grade TFT screen.

The P350 flexitrax command module allows you to zoom and rotate photos and live or recorded digital video in real-time. The command module also provides Mimic™ display, an intuitive way of controlling pan and tilt.

Combined, these features provide outstanding video picture quality and make it easier and quicker to correctly identify problems even in the toughest conditions.

RELIABILITY WHERE YOU NEED IT

The P350 flexitrax is engineered to operate in almost any environment. The command module and drum have a weatherproof rating of IP53. The tough, yet light-weight controller provides a durable buffer between the elements and your survey data.

The command module stores survey data direct to solid-state Compact Flash cards. Solid-state non-volatile memory means there are no moving parts so your files are secure and less vulnerable to shock damage and power outages.

The system is operable in the most demanding conditions. The crawlers can operate fully submersed and are water resistant to depths of up to 100m (330'). They are constructed from brass and stainless steel and are built with a single or twin 50W motor configuration, powerful enough to move through almost any pipeline system. The integrated sensitive inclinometer and the multi-frequency sonde allow you to map pipeline topography easily and efficiently.

The ruggedly constructed cameras are designed to transfer a front impact to the crawler body, protecting the cameras from most severe damages.

FLEXIBLE DIGITAL DATA TRANSFER

The advanced digital platform of the P350 flexitrax means you can transfer survey data from your Compact Flash card to your PC or laptop via fast USB 2.0. Use the included FlexiSight™ Windows-based software to edit video and convert reports to Microsoft® Word format.

With Bluetooth® wireless technology you can send your inspection photos from the command module to a compatible cell phone and forward them instantly to your client.

VERSATILITY

The P350 flexitrax is small enough to fit in the trunk of your car. The system can be van or truck mounted and wheeled on site using the ergonomic barrow design, allowing you to reach conduits beyond the range of your vehicle. Once on site, the system is quick and easy to set-up and deploy.

Build the system to meet your inspection requirements. Choose between a practical and inexpensive manual drum system or an advanced, compact, self—contained powered drum with up to 250m (825') of cable. Choose from three interchangeable cameras and two powerful, yet compact crawlers that are designed to withstand the most challenging sub-surface conditions.

The command module is also fully compatible with the P340 flexiprobe[™], giving you access to its comprehensive range of pushrod reels, cameras and accessories. Switch from crawler to pushrod inspection without carrying a second system.

The system is easy to use, thanks to its intuitive user interface and simple, one-touch control over video and photo capturing. The tough and durable keypad gives you direct access to advanced digital features and lets you drive any drum, crawler and camera combination.

The command module and the drum also feature RCA video outputs, meaning you can record your video to an external device or display video on an external monitor.

Choose between a wide choice of different wheels, elevators and tires to suit the pipe you are surveying. The small wheel set is the optimal configuration for deploying the P354 crawler in 100mm (4") pipes* and the P356 crawler in 150mm (6") pipes*.

SERVICEABILITY

The P350 flexitrax system is designed and built for continuous operation and easy maintenance. Each crawler is designed for quick repair. The powered drum features a removable drum and cable cassette that's fast and easy to replace in the workshop or even in the field. The optional re-termination kit makes it easy and affordable to replace and repair damaged cables.

The P350 flexitrax system is the obvious choice when you need cost-effective and flexible solutions.

*Minimum specified diameter must be maintained along the whole length of the survey.





GRAB TOOL

The crawler grab tool ensures the safest and quickest crawler deployment or retrieval.

FLEXIBLE DIGITAL DATA TRANSFER

Access your survey data with Compact Flash cards, USB 2.0 or Bluetooth® wireless technology.



SERVICEABILITY

Designed for continuous operation and easy maintenance on and off site.



DIGITAL CONTROL

- Compact and tough controller can be left on the drum or fitted where convenient
- Ultra-bright 200mm (8") industrial grade TFT screen with anti-reflective protection offers the best picture in any light condition
- Tough and durable keypad to control all the system functions and movements
- Splash-proof keyboard for text entry and report writing
- Digital zoom and picture navigation functions to explore, in real-time, the live video picture
- Record full PAL/NTSC video and snapshots onto solid-state Compact Flash (CF) card
- Bluetooth® wireless technology to send photos world-wide instantly (using a compatible cell phone and service provider)
- USB 2.0 port to transfer all the files quickly to a PC or laptop
- Compatible with P340 flexiprobe pushrod system



- IP53 and IP68 rated system
- Self-contained power drum allows for van fit or portable use
- Cable lengths from 100m (330') to 250m (825') with a cable-end protection system
- Automatic or manual retrieval mode
- Manual drum available
- Crawlers rated IP68 to 100m (330'), with inbuilt inclinometers and multi-frequency sondes

POWER AND AGILITY

- Non-steerable P354 crawler allows access in a typical 300mm manhole and pipe surveys from 100mm to 300mm (4" to 12")
- Steerable P356 crawler for pipes from 150mm (6") to 600mm (24")
- 50W (P354) and dual 50W (P356) crawler motors
- Quick release wheels (rubber or abrasive) for all pipe conditions





350 flexitrax



LIGHT AND VISION

- Uses ultra-bright LEDs for a long, maintenance-free life and exceptional light performance
- Choice of three high-definition cameras: forward view, pan & tilt or pan & tilt with 10x optical zoom
- P350-CMOD Mimic display control and auto survey mode for easy pan & tilt operation



DIGITAL VIDEO

Small and light control unit with advanced video functions and integrated report writer.



SWIVEL CONNECTOR

The swivel connector minimizes wear and tear of the cable whilst aiding the deployment/retrieval from narrow manholes.



VERSATILITY

Build the ultimate, compact system to suit your inspection needs.

FLEXIBILITY

The P350 flexitrax system is a modular system and all its main components are fully interchangeable.

Tailor the system to suit your business needs:

- Choose between the manual or selfcontained powered drum systems,
- Determine the cable length and crawler size to meet your typical pipe requirements,
- Choose any high-resolution (Forward View, Pan & Tilt or Pan & Tilt with 10x Optical Zoom) camera; each with ultra bright, white LED technology,
- Choose from a wide range and size of wheels, tires and accessories to suit any inspection environment,
- Use the P350 controller with the comprehensive P340 flexiprobe range of pushrods and cameras.

P350 FLEXITRAX SYSTEM OPTIONS

CONTROLLER	Command Module					
DRUM	Manual Drum + Portable PSU		Power Drum with Integral PSU			
CRAWLERS	P354 Crawler		P356 Crawler			
CAMERAS	Forward View	Pan & Tilt		Pan & Tilt with Zoom		
CABLE LENGTH	100m/150m/250m	100m/150m/250m		100/150m/250m		
WHEELS	Small Rubber (hard and soft) Abrasive	Medium Rubber (hard and soft) Abrasive		Large Rubber - Pneumatic (Not suitable for P354 Crawler)		

ACCESSORIES

WALL-MOUNT	To mount the controller on an adjustable arm to the side of your van					
CRAWLER WEIGHT	2kg weight plate to boost the P 354 crawler traction performance					
ELEVATOR	Fixed length or adjustable elevators to center the camera position in the pipe					
CRAWLER GRAB	Choice of crawler grab tools for P354 and P356 to ensure a safe and quick crawler deployment or retrieval					
LIGHTHEAD	850lm auxiliary lighthead					
VAN/TRUCK MOUNTING KIT	To mount the system to your van or truck					
PENDANT CONTROLLER	To control the system remotely					

RD7000+DL locator

Options

SONDE AND LOCATOR PACKAGE

The sonde and locator package is the essential tool to pinpoint pipe location and depth. Locate the sonde with the RD7000DL+ locator. Refer to the P340 flexiprobe brochure for more information.



P340 1"/25mm camera



P340 2"/50mm self leveling camera



P350 flexitrax system specification

COMMAND MODULE	P350-CMOD		 Environmental*: IP53 (Surface Equipment); IP68 to 100m/11bar (Downhole Equipment) 		
Screen	200mm / 8" Industrial TFT, SVGA		 Temperature (Storage): -20 to 80°C (-4 to 176°F) Temperature (Operating): -10 to 50°C (14 to 122°F) 		
Storage	High Speed Compact Flash		Temperature (Ope	*Unless otherwise stated.	
Recording Time (hrs)*	1:45 (HQ) - 3:45 (MQ) - 9:00 (LQ)				
Connectivity	USB 2.0, Video/Audio In/Out, Ethernet, Blue	etooth®			
Dimensions	300 x 360 x 200mm / 14" x 14" x 8"				
Weight	5.5kg /12lbs				
Environmental	IP55 (closed) IP53 (open)		A CONTRACTOR		
AUXILIARY LIGHTHEAD	P350-LH-8				
Dimension (L x Diameter)	63 x 136mm / 2.5" x 5.4"		3		
Weight	1.8kg / 4.0lbs			· ·	
Construction	Stainless Steel and Aluminum				
LED Luminance	≥ 850lm				
PENDANT CONTROLLER	P350-PENDANT		Menta		
Dimension (L x Diameter)	250 x 80 x 40mm / 9.8" x 3.1" x 1.6"			N. S. V.	
Weight	0.7kg / 1.5lbs	-\d!!d _b!	-01		
Construction	Linear Medium Density Polyethylene (LMDPI	=) and mild steel			
Environmental	IP64				
DRUMS	P350-DRUM-M		P350-DRUM-P		
Dimensions (L x W x H) Drum	445 x 270 x 570mm / 17.5" x 10.6" x 22.4"		633 x 412 x 740mm / 24.9" x 16.2" x 29.1"		
Dimensions manual power pack	418 x 195 x 420mm / 16.5" x 7.7" x 16.5"		Integral		
Weight	18kg to 29kg / 39.7lbs to 64lbs depending on cable length		59kg to 70kg / 130lbs to 154lbs depending on cable length		
Construction	Powder-coated tubular steel frame with steel and aluminum power pack enclosure. Stainless steel and aluminum manual cable management mechanism		Powder-coated steel chassis with steel and aluminum enclosure. Interchangeable alloy cable drum. Stainless steel and aluminum automatic cable management mechanism		
Power	110-240V 50-60Hz 1.2kVA. Generator (if used) to have inverter-type output				
CRAWLERS	P354		P356		
Pipe diameter	100mm to 300mm / 4" to 12"**		150mm to 600mm / 6" to 24"**		
Dimensions (L x W x H)	250 x 82 x 69mm / 9.8" x 3.2" x 2.7"		345 x 128 x 84 / 13.6" x 5" x 3.3"		
Weight	5.4kg / 12lbs		14.3kg / 31.5lbs		
Motors	1 x 50W		2 x 50W		
Construction	Brass and Stainless Steel		Brass and Stainless Steel		
Sonde frequency	512/640/8192/32768 Hz		512/640/8192/32768 Hz		
Inclinometer accuracy	+/- 0.2°		+/- 0.2°		
CAMERAS	P350-CAM-FW	P350-CAM-PT		P350-CAM-PTZ	
Dimensions (L x Diameter)	62 x 68mm / 2.4" x 2.7"	134 x 68mm / 5.3" x	2.7"	158 x 90mm / 6.2" x 3.5"	
Weight	600g / 1.3lbs	1.8kg / 4.0lbs		2.9kg / 6.4lbs	
Construction	Stainless Steel	Stainless Steel and	Aluminum	Stainless Steel and Aluminum	
Focal Range	10mm to ∞	10mm to ∞		10mm (WIDE) to ∞	
Horizontal Resolution	≥ 460TVL	≥ 460TVL		≥460 TVL	
Sensitivity	< 1.0 Lux	< 1.0 Lux		1.0 Lux @ f1.8	
LED luminance	≥ 120lm	≥ 210lm		≥ 420lm	
ELEVATORS	P350-ELV-F (FIXED ELEVATOR)	P350-ELV-A (ADJUSTABLE ELEVATOR)		P350-ELV-LAM (LARGE MANUAL ELEVATOR)	
Weight	0.4kg / 0.9lbs	0.7kg / 1.5lbs		4.5kg / 9.9lbs	
Construction	Stainless Steel and Aluminum	Stainless Steel		Stainless Steel and Aluminum	
Pipe Range (P354)	up to 300mm / 12"	up to 380mm / 15"		Not available	
po (1007)		up to 350mm / 15			

up to 380mm / 15"

Pipe Range (P356)

up to 458mm / 18"

300mm to 600mm / 12" to 24"

^{*}Based on a 2GB Compact Flash card. **Minimum specified diameter must be maintained along the whole length of the survey.

Approvals: CE (LVD 2006/95/EC, MD 98/37/EC, EMC 2004/108/EC, R+TTE 99/5/EC) / FCC 47 CFR part 15. Satisfies RoHS directive (Cat. 9 exemption). EN61010-1:2001, IEC61010-1:2001, UL61010-1.

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