

P340 flexiprobe™ system



Advanced performance.
Class leading **flexibility.**



Digital video

Digital zoom and pan to focus in on problem areas. Rotate images to make them easier to interpret. Pictures and video are stored in portable USB or Compact Flash memory.



Ultra-tough high resolution cameras

Stainless steel construction in a compact design. High resolution sensors and ultra bright white LEDs ensure a clear picture, even when submerged in water up to 330' (100m) deep.

P340 flexiprobe™ system

Advanced performance. Class leading flexibility.

P340 flexiprobe pushrod inspection systems redefine convenience and control in pipeline inspection.

At the heart of the **P340 flexiprobe** system is the weatherproof **P340usb flexiprobe** controller, which displays color footage in digital quality on an ultra-bright 8" TFT screen. USB flash drive and Compact Flash storage options along with PC connectivity provide flexible data storage and comprehensive reporting capabilities.

P340 flexiprobe systems have been designed to deliver controllable and high quality video inspection for any situation, from residential work and commercial use through to specialist plant and municipal applications.

Fully sealed 1" (25mm) and 2" (50mm) cameras can be mounted on a range of rods: from the ultra-flexible 100' (30m) Plumbers reel, designed for accessing tight corners, to the 500' (150m) P343 reel designed to push for long distances. A range of compatible sondes, skids, brushes and accessories completes the package.

Digital recordings

The fully digital controller system architecture provides precise control over inspections and recordings. Digital rotate, pan and zoom functions let you focus in on problem areas during live or recorded inspections.

Video and still images are recorded directly onto USB memory sticks or Compact Flash cards for easy management and transfer.

Tough and convenient high speed USB flash drives or Compact Flash cards are widely available in variety of memory sizes, so you can choose the type and size of storage device that meets your needs. With no moving parts your valuable data is protected against shocks and impacts.

One-touch recording and still picture capture

A single key press on the ruggedized keypad records high quality, full digital video, which is automatically time and date stamped and logged against the job that you are working on. Similarly, still pictures can be captured, inspected and filed at any point during your inspection with a single key press.

An 8Gb storage device is capable of storing up to 7 hours of high quality video.

To enhance the inspection, audio can be added to recordings via the optional microphone headset, and text commentary incorporated using the splashproof keyboard. To add flexibility, up to 20 pages of text can be stored into the controller module.

Ruggedized construction

Despite weighing only 12lb (5.5kg), the **P340usb** controller is designed to operate reliably in harsh weather conditions. The tough polypropylene casing is designed to resist scuffs and impacts, while the comprehensive sealing gives an IP53 rating when operating – and IP55 with the covers closed, minimizing the risk of damage from debris or water ingress. The cameras are designed to operate at up to 11 bar of pressure, the equivalent of a depth of 330' (100m) of water.

Ultra-bright 8" TFT screen

Durable keypad for easy access to all key functions:

- One-touch still picture capture
- One-touch record
- One-touch digital functions

Splashproof keyboard for text entry

Easily transportable compact reel options

Waterproof stainless steel camera with ultra bright white LEDs

Audio In/Out

Fuse holder

Video In/Out

PC, USB
Flash Drive

Power socket

Compact Flash
card slot

Ultra-flexible
Plumbers reel



Each **P340 flexiprobe** system comes complete with a universal easy-fit brush skid set, that allows the 1" camera to be used in pipes up to 4" (100mm) diameter and the 2" camera in pipes up to 6" (150mm) diameter. Brushes can be conveniently replaced in seconds. Additional standard equipment may vary due to regional variations.



Connectivity

Video and pictures can be copied from a Compact Flash card directly to a PC or laptop with a USB cable or transferred using a USB memory stick.



A range of rods to suit your application

From 100' (30m) for residential and small commercial plumbing use, right up to 500' (150m) for specialist applications.

USB flash drives

The **P340usb** command module supports the popular USB flash drive: simply plug your own or your customer's high speed memory stick into the USB slot and start recording and storing inspection videos, photos and observations directly into it.

USB memory sticks can be connected to any PC for direct access to your digital data without the need of an external card reader or the **P340usb** controller.

Outstanding picture quality

The **P340 flexiprobe system** offers two cameras, a 1" (25mm) and a 2" (50mm), equipped with high resolution sensors and the latest generation ultra-bright white LEDs, which combine to deliver a crisp, clear picture in most pipe conditions.

The P340 self leveling 2" camera features a sapphire window to protect its lens and a sensor which boasts over 39% higher horizontal resolution than its predecessor (460 vs 330 usable horizontal TVL).

The P340 1" camera features a tough polycarbonate cover to protect the LEDs all in a small, compact package, specifically designed to help navigating through bends.

Both cameras come with a manual focus tool which allows you to adjust the focus of your camera to the correct pipe size ensuring you do not miss the smallest defect.

Packaged in tough 303 stainless steel cases, they can withstand 11 bar of pressure.



Plumbers reel

Where extra flexibility is needed, the P341 Plumbers reel coupled with the compact 1" camera offers outstanding performance around tight bends and traps, negotiating most traps (from 2"/50mm) and bends (from 1 1/4" / 32mm). The Plumbers system is the ideal tool for your small pipe plumbing needs.

The flexible rod termination has a built-in transmitter sonde (512Hz/640Hz) which allows you to pinpoint its location and depth without compromising maneuverability around tight corners.



Easy to use software interface

The **P340usb** software has been specifically developed to make the P340 flexiprobe system easy and intuitive to use. Setting up and customizing your controller is very simple thanks to the color based list menus, which clearly define all the options available.

Adding text to your survey is never more than one keyboard click away. Browse or edit up to 20 pages of text or automatically use them as titles at the beginning of your video recordings.

Organize work effectively

The **P340usb** controller quickly organizes your work in "Job" folders which are linked to the inspection you are carrying out, making the review and storage of videos, photos and observations straightforward.

Jobs can be created very quickly at the start of your first recording by entering a minimum set of information or by accessing the "Job Browser" menu and entering detailed information about your client, site and survey.

Jobs can be expanded by adding multiple surveys to the site you are inspecting or by adding different sites to the client you are working for.



Be more productive on-site

Use the comprehensive, built-in, **P340usb** reporting system to quickly fill out report observations on-site without the need for extra equipment. Report templates are customizable to meet your own requirements.

Entering detailed observation, including grading and photos, could not be easier, thanks to the built-in WRC™, PAPC™ or custom made defect code lists.

Produce a SEWER.DAT report file directly from your **P340usb** controller.

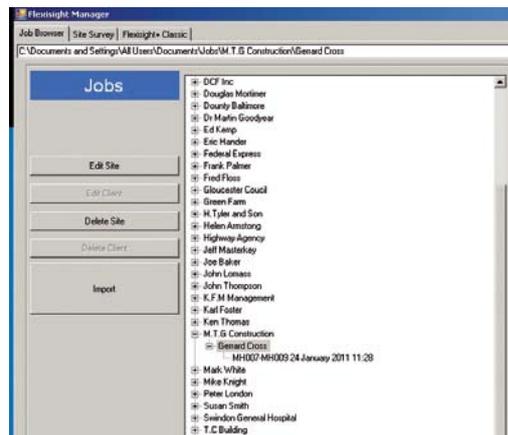
Manage your data and produce reports

The Flexisight™ Manager software is the ideal PC companion of the **P340usb** controller. With this Windows® XP/Windows Vista®/Windows® 7 compatible software, you will be able to import, store and manage all your digital inspection data.

Use the "Job Browser" screen to quickly import and browse all your saved jobs.

Use the "Surveys" screen to review and edit videos, take snapshots, annotate photos and review, edit or create observations.

Produce comprehensive customizable reports, with your company logo, incorporating pipe graphics and color coded defect grading (requires Microsoft® Word 97 or higher).



Portable controller

Light weight and integrated carry handle make the weatherproof **P340usb** controller very easy to carry on site no matter the weather.

Mains or battery powered

Use the **P340** flexiprobe system anywhere, however remote the location – even if a mains or vehicle supply is not available (with optional battery packs).

Integrated report writer

Quickly enter observations on site and export Sewer.Dat report files without needing to connect up – then view and edit them at your convenience on a PC and produce detailed reports with pipe graphics.



P340 flexiprobe systems include as standard:

- P340_{USB} flexiprobe controller.
- Choice of color cameras – 1" (25mm) or 2" (50mm) diameter.
- Choice of pushrod reels:
 - 100' (30m) P341 Plumbers reel.
 - 115' (35m) P341 reel.
 - 200' (60m) or 400' (120m) P342 reels.
 - 500' (150m) P343 reel.
- Controller adaptor clamp (optional for the P341).
- Flexisight™ Manager Windows® PC software.
- 2Gb Compact Flash card.
- Splashproof keyboard, IP67 mains adaptor, 12V car jackplug lead.
- Universal brush & skid kit.

Plumbers reel system includes a built-in 512/640Hz flexisonde.



P341 Plumbers Reel

Standard equipment may vary due to regional variations.

Specifications

Controller

	P340 _{USB}
Power	Controller: 12-24V DC, 40W External PSU: 100-240VAC, 50-60Hz, Max 1.2A
Screen	8" / 200mm industrial TFT
Storage	High speed Compact Flash or USB flash drive
Connectivity	USB, video in/out, audio in/out
Environmental	Controller: IP55 (covers closed) / IP53 (covers open and socket panel closed) External power supply: IP67 rated for outdoor use
Temperature	Storage: -4°F to 176°F / -20°C to +80°C Operating: 14°F to 122°F / -10°C to 50°C
Dimensions	14" x 14" x 8" / 360 x 360 x 200mm
Weight	12lbs / 5.5kg

Rods and Reels

	P341 Plumbers	P341 Reel	P342 Reels	P343 Reel
Dimensions	22.4" x 16.9" x 10.6" 570 x 430 x 269mm	22.4" x 16.9" x 10.6" 570 x 430 x 269mm	33.5" x 29.5" x 16.5" 850 x 750 x 420mm	32.0" x 46.0" x 18.7" 813 x 1168 x 475mm
Weight	21lbs/9.4 kg	24lbs/11kg	40lbs/18.2 kg 55lbs/25kg	81.6lbs/37kg
Construction	Powder-coated tubular steel frame			
Rod	100' / 30m 200' / 60m	115' / 35m	200' / 60m 400' / 120m	500' / 150m



P341 Reel

P342 Reel

P343 Reel

Cameras

	P340 1" / 25mm Camera	P340 2" / 50mm Self Leveling Camera
Dimensions	1" x 1.52" 25.4 x 38.7mm	1.89" x 2.87" 48 x 72.8mm
Weight	0.13lbs/0.06kg	0.79lbs/0.36kg
Construction	Stainless steel/polycarbonate	Stainless steel/sapphire glass/ polycarbonate
Power	1.8W	3.8W
Environmental	IP68 to 330' (100m) / 11bar	
Temperature	Storage: -4°F to 176°F / -20°C to +80°C Operating: 14°F to 122°F / -10°C to 50°C	
Focus	Adjustable	
Focal range	10mm to ∞	
Lighting	Ultra bright white LEDs	
LED luminance	≥ 75lm	≥ 208lm
Active pixels (HxV)	656 x 492 NTSC 768 x 576 PAL	768 x 492 NTSC 765 x 582 PAL
Horizontal resolution	≥ 460TVL	



Accessories that extend your capabilities

Tailor your system to your needs with a range of solid sondes, flexisondes, cable and pipe locators and flexis.

Completely modular

All cameras, controllers, rods and accessories are fully interchangeable*, giving you the flexibility to expand your system at your pace.

*P341 Plumbers sonde not detachable.

P350 flexitrac™ compatible

The P350 flexitrac controller is compatible with the full range of P340 flexiprobe cameras, reels, sondes and accessories providing unmatched modularity from the small 100' (30m) Plumbers system to the 820' (250m) motorized P356 steerable crawler system.

Options

Sonde and locator combination

By combining your P340 flexiprobe system with a sonde (included with the P341 Plumber systems) and a suitable locator, you can pinpoint the camera's location and depth, providing a valuable tool for repairs and tracing alike. The RD7000DL+, capable of detecting 3 different sonde frequencies and featuring Dynamic Overload Protection and Compass, is specifically designed for the water industry, and capable of precisely locating a sonde even in electrically noisy areas.



Battery packs

Use the P340 flexiprobe system anywhere with the optional, rechargeable, weatherproof battery packs. Two models are available: 7Ah giving 4 hours* continuous operation and 12Ah for 8 hours* operation. Even more flexibility is delivered by the optional 12V charger for in-vehicle charging.



*Figures are approximate and condition dependent.

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