



 **Where Ideas Meet Industry**



Pipeline Inspection Technology



pearpoint

innovative systems
global solutions

welcome to pearpoint





innovative systems global solutions

Over the last two decades, Pearpoint has earned a reputation of being the world leader in video pipeline inspection equipment technology. And for good reason—by listening to our customers and understanding their needs, we have created innovative tools that are productive, reliable and provide exceptional value.

Our systems are effectively integrated packages that help our customers make decisions faster and manage their assets more effectively.

Pearpoint is not just a hardware manufacturer, but an inspection solutions provider. Whether you are a municipality, water and sanitary district, private contractor or industrial plant manager, Pearpoint has a video inspection solution for your application and environment.

Whatever your requirements, Pearpoint can provide the quality, safety, versatility and after-sales support you need to get inspection projects done right, on time and on budget.

We look forward to serving you.

pearpoint



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camarc

mainline inspection innovation



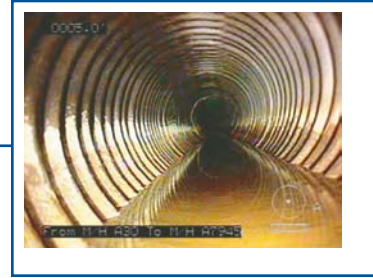
Pan & Tilt Mainline Cameras



Pearpoint, the industry leader in video inspection technology offers a variety of quality-built mainline camera solutions designed to meet the varied and challenging demands of video pipeline inspection. These cameras are approved, labelled and listed by a nationally recognised testing laboratory (NRTL) for use in Class I, Div 1, Gas Groups C & D, T3 environments.



One camera body, two camera head options



- Versatile pan and tilt operation
- Standard head operates in pipes 6" (150mm) and larger in diameter
- Zoom head operates in pipes 8" (200mm) and larger in diameter
- Digital video processing for the sharpest, crispest image available at over 450 TVL
- Constructed of rugged 300 Series stainless steel and anodised aluminum, waterproof to 11 Bar (150 PSI)
- Full 360° continuous pan and tilt available on both P494 *flexiview*® camera heads
- Better than 1 lux sensitivity
- Built-in directional lighting with both camera heads
- Approved, labelled and listed by an NRTL for use in Class I, Div 1, Gas Groups C & D, T3 environments
- Compatible with other Pearpoint NRTL approved, labeled and listed components

P494 flexiview

The **P494 flexiview® Camera** from Pearpoint features full 360° pan and tilt for maximum viewing capacity and better than 1 lux digital video processing. The P494 can be utilized on all P400 series tractors. The standard camera head is designed for inspection in lines 6" (150mm) in diameter and larger.

P494 Zoom

40:1 Auto Focus Zoom Pan & Tilt Colour Camera Head Option is designed for inspection in lines 8" (200mm) and larger in diameter. The 10X optical zoom followed by 4X digital zoom camera technology provides optimum clarity and the ability to capture the smallest details during mainline and lateral inspections. It is especially helpful when surveying large diameter pipe and for viewing past large obstacles.

Interchangeable Transporters

P420

6-Wheel drive small tractor for pipes 6" to 30" (150mm-750mm) in diameter; up to 110W of lighting

P400

4-Wheel drive large tractor with remote controlled elevator for pipes 12" (300mm) and larger; up to 200W of lighting

P448 (facing page)

4-Wheel drive large steerable tractor with remote controlled elevator for pipes 20" (500mm) and larger; up to 200W of lighting; negotiates radical bends and turns on its own axis

P400 Series Mainline Tractors are powered forward and reverse and provide significant performance advantages over track crawler systems in harsh environments such as unclean and debris filled lines.



- Inspection capabilities in lines 6" (150mm) and larger in diameter
- Approved, labelled and listed by a nationally recognized testing laboratory (NRTL) for use in Class I, Div 1, Gas Groups C & D, T3 environments
- Powered forward and reverse
- No external wiring to lightheads
- Wide variety of lightheads and wheels available for inspection versatility in various pipe materials such as PVC, concrete, VCP and corrugated



Productivity PLUS

The compact length of these robust tractors allows for easier manhole entry and maneuverability in difficult areas such as tight turned or curved bench inverts, offset joints, small spaces and tight pipe entries.

With the **Optional P420 Tractor Swivel Tail Cable Connector** deployment into challenging and small entry points is made even easier.

mainline navigation made easy

tractors



System Control

P377

An ergonomic keyboard designed for ease of use and high productivity



Constructed of rugged polyethylene, the **P377 System Control Center** features a "QWERTY" keyboard (laptop layout), function keys and two ideally placed joysticks. Large enough for normal finger strike operation, the keyboard is 22" (558mm) wide by 12" (304mm) deep.

Simple thumb movements operate the uniquely designed joysticks without having to relocate hands away from the keyboard.

Joysticks operate tractor movement and camera functions. Cable drum and light controls are also built into this ergonomically designed keyboard which can be desk top mounted or custom-cut inset.

- Composite, SVHS and RGB video outputs
- Composite and SVHS video inputs (for external video sources i.e. push camera)
- Auto and Manual camera iris controls
- Camera zoom and focus controls
- Easy-to-clean, splash proof, rugged HDPE construction
- Joystick camera and tractor operation
- Provides on-screen system diagnostics
- Controls camera, cable drum, tractor, lighting and peripherals
- On-screen menu driven
- RS232 and Ethernet connections
- Compatible with Pearpoint 25-50V color systems
- CE and FCC approved

Mainline Configuration

A mainline inspection system consists of several key components along with a specific range of accessories such as lightheads and wheels to provide a solution ideally suited to the client's unique application and environment. This configuration is installed into a vehicle or other transport device of the client's choosing.



P377 Controller for operation of cameras, tractors, drum and lighting

P599 Motorised Drum with up to 2000' (600m) of Kevlar® reinforced cable

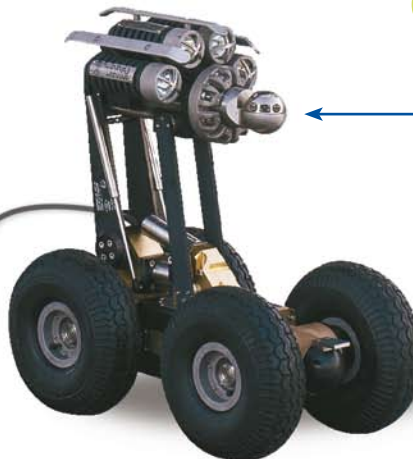


P494 Standard or Zoom Camera with P420 Tractor



P599 works with all P400 Series cameras and tractors

P494 Standard or Zoom Camera with P400 or P448 Tractor



P378 Pendant Controller provides a convenient alternative method for controlling the system from outside of the operator control room directly at the deployment site



or

designed for growth

vehicles

productivity by design

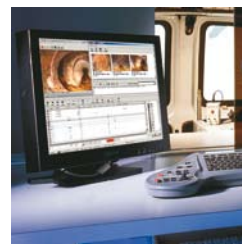


Custom-Built Inspection Vehicles

As a licensed vehicle converter and dealer*, Pearpoint is your source for complete CCTV inspection equipment, vehicles and software solutions.

Numerous vehicle makes, models and styles are available to suit each client's specific requirements. Custom cabinetry, bathrooms, sinks, washdown systems, tool chests, work benches and specialized workstations are just some of the many options available.

Selection, superior craftsmanship and attention to detail—what to expect when you choose a custom-built inspection vehicle solution from Pearpoint.



Available Configurations*

Hi-Cube Van

12', 14' and 16' Boxes

Step Van

16', 18' and 20' Bodies

Utility Van

Economy, Standard and Extended

Freightliner Sprinter

Compact walk-through van
by Mercedes-Benz

All Terrain Vehicles (ATVs)

Trailers

Retrofits

Previously outfitted vehicles can be
equipped with Pearpoint systems

Pearpoint inspection vehicles
feature the **P599 Cable Drum**.

This synchronised electric,
automatic cable drum maintains
cable tension and matches
tractor speed (forward and
reverse) automatically.

- Built of rugged cast aluminum with protective covering for operator safety
- Optional P378 remote control
- Built-in electronic footage counter with accuracy of +/- 1%
- Emergency shut-off
- Capable of running in manual and free-wheel modes

P599 Cable Drum



Cable Length Maximum
EX 7 Core = up to 1350' (450m)
EX 5 Core = up to 2000' (650m)

* Vehicle Models, Configurations and Conversion Services vary by Pearpoint office location. Please contact your local representative for details and availability.

vehicle

productivity by design



modular systems



Modular Mainline Systems

COMPONENTS

Cable Drum

manual with a capacity of up to 1000' (350m) of cable

P415 Straight View Camera

auto-uprighting, can be used on a push-rod or tractor based system

Or

P494 Pan & Tilt Camera

Standard or Zoom head

P420 Tractor

6-Wheel drive tractor for pipes 6" to 30" (150mm-750mm) in diameter

PLUS

P320 Universal Controller

portable, all-inclusive unit with 10" (254mm) monitor

- Compatible with all Pearpoint color cameras, tractors, lightheads and cable drums
- Operates both push-rod and tractor based systems
- Portable or truck mounted
- Controls camera, tractor, peripherals and lighting
- Rugged HDPE construction with built-in sunshade
- Built-in diagnostics for easy fault finding
- CE and FCC approved
- Composite and SVHS video inputs/outputs
- RS232 port for software integration

Pearpoint offers a complete line of portable mini-mainline inspection solutions and peripherals. These systems are upgradeable and expandable—built for functionality, durability and flexibility, able to grow with your inspection requirements as needed.

Outstanding features include: interchangeable cameras, drums and powered forward and reverse tractors; digital video processing with better than 1 lux sensitivity; compact design for easy transport into easements and difficult or limited access locations; ability to be upgraded to a vehicle mounted system.

These systems are approved, labelled and listed by a nationally recognized testing laboratory (NRTL) for use in Class I, Div 1, Gas Groups C & D, T3 environments.



push-rod systems

robust and compact solutions



Large Push-Rod Systems

Pearpoint's *flexicoiler*™ and modular push-rod systems are fully integrated, stand-alone units ideal for applications such as sewer lines, water pipes, pest control, chimneys, search and rescue, drains, conduits, wells and industrial inspections.

These systems are approved, labelled and listed by a nationally recognised testing laboratory (NRTL) for use in Class I, Div 1, Gas Groups C & D, T3 environments.



- Available with P415 Mk2 auto-upright straight view camera or P455 TwinView camera
- Versatile coiler running 500' (150m) of push-rod (3/8"/10.5mm diameter) with built-in accurate high resolution footage counter
- Built-in sonde (8.125 kHz)
- Waterproof to 11 Bar (150 PSI)
- Composite video input/output for any external recording system
- Modular system upgradeable to a tractor based system

Straight view, auto-upright colour camera designed for the inspection of pipes 4" to 24" (100mm-600mm) in diameter with 1 lux sensitivity, 450 TVL resolution, remote electronic iris and auto focus. Negotiates 4" (100mm) 90° bends. A variety of peripherals such as lightheads and skids are available.

P415 Mk2



P455 Twin View



An extraordinarily robust and flexible camera, offering pan and tilt like features on a push-rod system for inspection of 3" to 18" (75mm-450mm) pipes. Negotiates 4" (100mm) 90° bends.

The dual view facility with its 360° radial 90° view camera provides outstanding survey capabilities for mainlines, laterals, welding points, water wells and boreholes.



P455 Large Lighthead

Mini Systems

These fully integrated units feature a versatile coiler running 200' (60m) of push-rod, rod counter, built-in connector for VCR or video printer and a QWERTY keyboard built into the monitor.



P373 MiniCam

Designed for basic applications in pipes 1" to 4" (25mm-100mm). Constructed of rugged, rust-proof cast/welded aluminum.

Ideal for applications such as:
residential and commercial drains, pest control, conduits and search and rescue

P374 IS MiniCam

The P374 IS is approved, labelled and listed as intrinsically safe for inspection and entry to Zone 0 (Class I, Division 1, Gas Group A), T6 environments. Designed for applications in pipes 1" to 4" (25mm-100mm). Constructed of rugged, rust-proof cast/welded aluminum.

Ideal for applications such as:
hazardous locations, process piping, pipelines and compressor stations, drainage systems, weld inspections, remote visual construction and commissioning inspections, structural elements, foreign object and debris removal, flare stacks, towers and chimneys, manufacturing (extruders, hydraulic systems, pumps, event monitoring), remote visual support for life assessment, forensics, turbines and compressors

- Manually set focus
- Color digital processing
- Composite video output/input
- 200' (60m) of push-rod
- Maintenance-free white LEDs
- Fully integrated, self-contained unit
- Sapphire glass window for durability
- Built-in connector for VCR or video printer
- 110V AC or 12V DC
- Waterproof to 11 Bar (150 PSI)

pearpoint...since 1983

...setting the standard to how
video pipeline inspection equipment is built.



America

Radiodetection

154 Portland Road
Bridgton, ME 04009, USA
Tel: +1 (207) 647 9495
Toll Free: +1 (877) 247 3797
Fax: +1 (207) 647 9496
Email: rd.sales.us@spx.com
Web: www.radiodetection.com

Pearpoint

72055 Corporate Way
Thousand Palms CA 92276, USA
Tel: +1 800 688 8094
Tel: +1 760 343 7350
Fax: +1 760 343 7351
Email: pearpoint.sales.us@spx.com
Web: www.radiodetection.com

Radiodetection (Canada)

344 Edgeley Boulevard, Unit 34
Concord, Ontario L4K 4B7, Canada
Tel: +1 (905) 660 9995
Toll Free: +1 (800) 665 7953
Fax: +1 (905) 660 9579
Email: rd.sales.ca@spx.com
Web: www.radiodetection.com

Europe

Radiodetection Ltd (UK)

Western Drive
Bristol BS14 0AF, UK
Tel: +44 (0) 117 976 7776
Fax: +44 (0) 117 976 7775
Email: rd.sales.uk@spx.com
Web: www.radiodetection.com

Radiodetection (France)

13 Grande Rue, 76220
Neuf Marché, France
Tel: +33 (0) 232 8993 60
Fax: +33 (0) 235 9095 58
Email: rd.sales.fr@spx.com
Web: <http://fr.radiodetection.com>

Radiodetection (Benelux)

Industriestraat 11
7041 GD 's-Heerenberg, Netherlands
Tel: +31 (0) 314 66 47 00
Fax: +31 (0) 314 66 41 30
Email: rd.sales.nl@spx.com
Web: <http://nl.radiodetection.com>

Radiodetection (Germany)

Groendahlscher Weg 118
46446 Emmerich am Rhein, Germany
Tel: +49 (0) 28 51 92 37 20
Fax: +49 (0) 28 51 92 37 520
Email: rd.sales.de@spx.com
Web: <http://de.radiodetection.com>

Asia-Pacific

Radiodetection (Asia-Pacific)

Room 708, CC Wu Building
302-308 Hennessy Road, Wan Chai
Hong Kong SAR, China
Tel: +852 2110 8160
Fax: +852 2110 9681
Email: rd.sales.cn@spx.com
Web: www.radiodetection.com

Radiodetection (China)

Hongfu Mansion, Room 61622
Zheng Ge Zhuang, Bei Qi Jia Town
Chang Ping District
Beijing 102209, China
Tel: +86 (0) 10 8975 5540
Fax: +86 (0) 10 8975 5640
Email: rd.service.cn@spx.com
Web: <http://cn.radiodetection.com>

Radiodetection (Australia)

Unit 14, 5-7 Prosperity Parade
Warriewood NSW 2102, Australia
Tel: +61 (0) 2 9979 8555
Fax: +61 (0) 2 9979 7733
Email: rd.sales.au@spx.com
Web: www.radiodetection.com



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Global Headquarters
13515 Ballantyne Corporate Place
Charlotte, North Carolina 28277
United States

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www.spx.com