

## P494 Pan & Tilt Cameras

### One camera body—two camera head options

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, labeled and listed by a nationally recognized testing laboratory (NRTL) for use in Class I, Div 1, Gas Groups C & D, T3 environments – for europe EX “d” Group IIB T3.

#### Key Features:

- Versatile pan and tilt operation
- Camera head operates in pipes 150mm (6”) and larger in diameter
- Zoom head operates in pipes 200mm (8”) and larger in diameter
- Digital video processing for the sharpest, crispest image available at over 525 PAL, 450 NTSC
- 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 camera heads
- Better than 1 lux sensitivity
- Built-in directional lighting with both camera heads
- Approved, labeled and listed by an NRTL for use in Class I, Div 1, Gas Groups C & D, T3 environments – for europe EX “d” Group IIB T3.
- Compatible with other Pearpoint NRTL approved, labeled and listed components

#### P494

The P494 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 150mm (6”) in diameter and larger.



#### P494 Zoom Camera Head

40:1 Auto Focus Zoom Pan & Tilt Colour Camera Head Option is designed for inspection in lines 200mm (8”) 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.



Maximum Pipeline Inspection

## General

### Camera Electronic

- Sensitivity Better than 1 lux (faceplate illumination) at maximum gain (20dB of gain present) and maximum gain and no illumination
- Video Output 625 lines/50 fields/sec PAL 535 lines/60 fields/sec NTSC
- Head Rotation Full 360 degrees, continuous
- Remote Control Functions Rotate, pan, manual/auto iris, lights on/off
- Power 25 - 50V  $\pm$ 1V under concurrent tilt rotate plus lighting power - 250mA, 76mm head, 400mA, 114mm 40:1 zoom head

### Camera Mechanical

- Length 215mm (8.5") body  
116mm (4.5") 76mm head  
150mm (6") 114mm 40:1 zoom head  
315mm (12.4") body with 76mm head  
48mm (13.7") body with 114mm zoom head
- Diameter 70mm (2.7") body  
76mm (3") small head  
114mm (4.5") large zoom head  
348mm (13.7") large head swept on rotate circle
- Weight 3.05kg (6.7 lbs.) body  
1.55kg (3.4 lbs.) small head  
2.38kg (5.2 lbs.) large head
- Sealing Sealed to IP68 (400'/130m depth) (11 bar)
- Construction Stainless steel and anodized aluminium; all sealing faces fitted with O-rings or spring energized seals
- Operating Temperature -10° to +40° C
- Storage Temperature -20° to +85° C

## 76MM Camera Head

- Angle of View 70 degrees diagonal
- Focal Length 4.28mm
- Iris f1.8 - f4 manual or automatic control
- Iris Speed 1.7 seconds full open to full closed
- Focus Speed 8 seconds near to far
- Head Pan Full 360° continuous
- Lighting Directional 2 x 6W
- Image Resolution 1/4 HAD CCD  
752 x 582 PAL  
738 x 494 NTSC
- H Res 460 PAL  
470 NTSC
- s/n Ratio 50db

## 40:1 Zoom Camera Head

- Angle of View 4.6 - 45 degrees diagonal, continuously variable
- Focal Length 10mm - infinity
- Iris f1.8 - f2.9 manual or automatic control
- Iris Speed 1.5 seconds full open to full closed
- Zoom Speed 5.3 seconds near to far
- Head Pan Full 360° continuous
- Zoom Focus Automatic/Manual
- Lighting Directional 2 x 5W
- Image Resolution 1/4 HAD CCD  
752 x 582 PAL  
738 x 494 NTSC
- H Res 460 PAL  
470 NTSC
- s/n Ratio 50db

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Camera specifications