Description:

Watson Industries has many years of experience developing sensor packages for stabilized camera platforms. Now we have taken the next step and are offering a complete system.

Our gyro-stabilized mount is built around a rugged pan and tilt mechanism. This is a high resolution digital system uses the best wide bandwidth, low noise, solid-state gyros. Watson's proprietary rate closure, zero error algorithms take commands from a remote joystick controller and drive a digital servo controller on the mount. The whole system is user configurable to adapt to a wide range of payloads and requirements.

Watson Industries also provides custom systems for special requirements. Our system design is modular and configurable for economical and quick adaptation to a wide variety of hardware configurations. Of course Watson Industries’ excellent product support and applications engineering goes along with every product.

- High Stability
- High Reliability
- Low Cost
- Low Noise
- Two Year Limited Warranty
- Engineering Support

Applications:

Uses for this platform include Mobile CCTV, video and film camera stabilization, antenna stabilization, range finders, stabilized lighting, aerial photo survey and coastal surveillance. These applications are for air, sea, and ground use.
### SPS-P230 Specifications

**Platform**
- Range: Pan ±170° (Electronic) ±175° (Mechanical)
- Range: Tilt ±90° (Electronic) ±95° (Mechanical)
- Slew Rate: Bank, Elevation ±45°/sec
- Tilt Accuracy: Static ±1.5°
- Tilt Accuracy: Dynamic ±3.0°
- Noise: 0.1° rms
- Stability: ±1.5° Over 20 minutes

**Environmental**
- Temperature: Operating -20°C to +50°C
- Temperature: Storage -50°C to +80°C
- Vibration: Operating 0.5 g rms 100 Hz to 1 KHz
- Vibration: Survival 2 g rms 100 Hz to 1 KHz

**Electrical**
- Startup Time: Operational 10 seconds
- Startup Time: Full Performance 90 seconds
- Input Power: 18 to 30 VDC
- Input Current: 2A @ 28VDC 6A Peak

**Physical**
- Size: Including Mounting Flanges 6.7"W x 15.8"L x 9.2"H 17.0 x 40.1 x 23.4 (cm)
- Weight: 28lb (12.7Kg) Not including payload
- Connection: RS-232 9 pin female "D" subminiature On joystick controller
- Connection: Power MS3112E-8-4P (4 pin male) On joystick controller
- Connection: Interface MS3102A-16S-1S (7 pin female) On joystick controller MS3102A-20-7P (8 pin male) On servo controller Interface Cable: 5 meter MS3106A-16S-1P 7 pin male end mates to joystick controller MS3106A-20-7S 8 pin female end mates to servo system
- Capacity: 45 Kg
- Base Mounting Holes: Qty 8 (4 x M6 threaded; 4 x #12 M6 clearance) 4" dia. bolt circle
- Payload Mounting Holes: Qty 8 #12 (M6 clearance) 4" dia. bolt circle

- Specifications are subject to change without notice.
- This product may be subject to export restrictions. Export Classification ECCN EAR99.
**Dimensions:**

**Servo System**

- 23 cm (9.1")
- 17 cm (6.7")
- 40 cm (15.8")

**Joystick Controller**

- 185 mm (7.3")
- 5.0" (127 mm)
- 4.0" (102 mm)

**Watson Industries, Inc.**

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