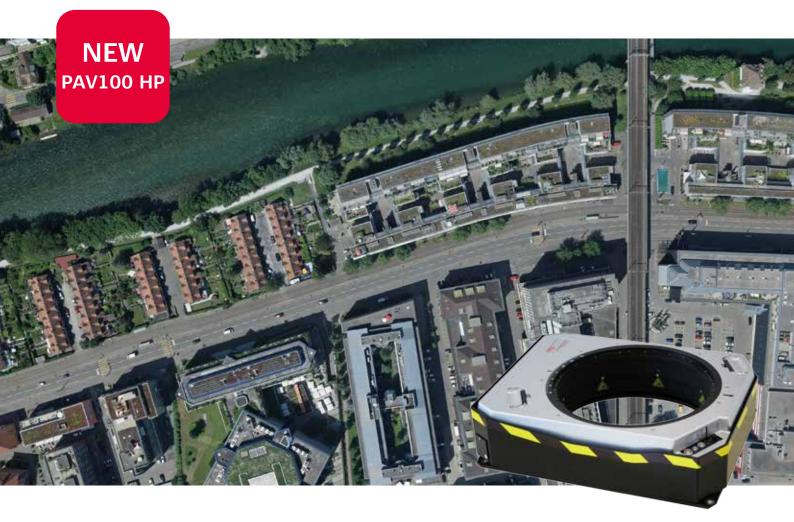
Leica PAV100 series

Gyro-stabilised sensor mount





Common sensor platform

The Leica PAV100 gyro-stabilised sensor mount provides angular motion compensation, perfectly vertical photography and fully automated operation for all Leica Geosystems airborne sensors. The system allows the user to change quickly between sensors inside a unified aircraft installation, reducing cost and simplifying operation.



Improved image quality

Precise sensor stabilisation during camera exposure is essential for good image quality. PAV100 keeps the camera in stable nadir view and fully compensates for aircraft movement. It provides automatic drift control and pitch, roll compensation using precise IMU data and introduces a unique Adaptive Control feature which filters out environmental vibrations.



Increased efficiency

PAV100 increases the efficiency of every flight by reducing flight lines with perfect drift compensation and lessening the stress on your flight crew. The system features adaptive control to optimise the output for any sensor from 5 to 100 kg. The new PAV100 HP high performance version provides twice the efficiency of the standard model.





Leica PAV100 series product specifications

OPERATIONAL

Stabilisation range in roll Standard protection cover Low height protection cover	- 7° to + 7° - 5° to + 5°
Stabilisation range in pitch Standard protection cover Low height protection cover	- 8° to + 6° - 5° to + 5°
Stabilisation range in drift PAV100	- 30° to + 30°
Sensor weight PAV100 PAV100 High Performance PAV100 Heavy Load PAV80 RCD	5 kg to 75 kg 5 kg to 60 kg 65 kg to 100 kg 5 kg to 35 kg
Typical residual deviation from vertical*	< 0.02° RMS
Typical residual deviation from drift*	< 0.02° RMS, depends on GNSS/IMU

INTERFACES

Command interface	RS232
GNSS/IMU system	RS232 to Leica IPAS20, Novatel SPAN or 3 rd party GNSS/IMU system

ELECTRICAL

to 30.3 VDC
rage ** 35 W, peak 250 W
10 A, max 15 A

MECHANICAL

Mechanical sensor interfaces	SH81, SH82, SH91, SH92, SH100, SH120, RCD30, RCD30 Oblique, DMC IIe, DMC III, ALS60/70/80 with RCD30, CityMapper, DragonEye, Chiroptera, generic
Sensor hole dimension	410 mm
Dimension	
PAV100	673 mm x 532 mm x 168 mm
PAV100 High Performance	673 mm x 532 mm x 240 mm
Weight excluding sensor adapters	
PAV100	38.0 kg
PAV100 High Performance	44.8 kg

ENVIRONMENTAL

Operating temperature	– 20 °C to + 55 °C
Storage temperature	– 40 °C to + 85 °C
Pressurised aircraft / non pressurised	ICAO 50,000 ft / ICAO 25,000 ft
Humidity	0 % to 95 % rH according to ISO 7137

APPLIED STANDARDS

General	ISO 7137, RTCA DO-160-G, EUROCAE-14G
CONFORMITY	

- * For photo flight situations, i.e. aircraft angular motion <10 °/s and with typical aircraft photo flight frequency spectrum

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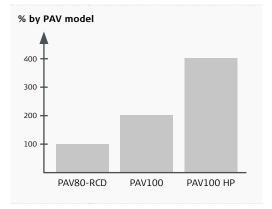






Conformity to national regulations

STABILISATION PERFORMANCE



RECOMMENDED PLATFORM

Platform for optimum performance by sensor	
PAV80-RCD	RCD30
PAV100	DMC IIe, DMC III RCD30 Oblique ADS80 SH8x, SH9x DragonEye, Chiroptera
PAV100 Heavy Load	CityMapper ALS60, ALS70, ALS80 with RCD30
PAV100 High Performance	ADS100 SH100, SH120

