

GYRO-STABILIZED MOUNT

BEIJING AUTOMATION CONTROL EQUIPMENT INSTITUTE



- PN-14

Overview of product

Since 2010, the institute has conducted development of gyro stabilized mount. Currently, type series products have already been formed. For the product, three-axis (pitch, roll, and azimuth) stabilization is realized through three-frame structure. The product is used for isolating disturbance caused by carrier attitude movement to sensitive shaft/antenna of aerial remote sensing payload so as to realize the reliable, stable, and accuracy pointing of the sensitive shaft/antenna.

Technical characteristics

High reliability and stability, strong load capacity. It can be integrated with high-accuracy position and attitude measurement system .

Field of application

National defense military mapping, national foundation mapping, territorial resources investigation, disaster investigation and evaluation, large-scale engineering construction, urban and rural planning, etc.

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TYPE	PN-14	GSM-350
Load weight (kg)	30 to100	5 to100
Stabilization range in pitch&roll (deg)	-5 to +5	-7 to +7
Stabilization range in drift (deg)	-30 to +30	-30 to +30
Typical residual deviation from vertical (deg)	0.3	0.05
Typical residual deviation from drift (deg)	0.5	0.05
Weight (kg)	<50	<35
Control port	Autonomous information or POS real time navigation information	
Dimensions (mm)	660×535×146	696×542×178
Mounting (mm)	616×482	616×482
Power supply (v)	DC23,5 to 29,5	DC21 to 32
Operating temperature (°C)	-25 to +55	-25 to +55
Storage temperature (°C)	-40 to +70	-40 to +70
Maximum height	15200m/50000ft	15200m/50000ft
Communication port	RS-422A×2, RS-232×1	RS-422/232×3,TTL×2,422 input×1, TTL pulse output×2

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