

LAND LOCATING AND ORIENTATING SYSTEM

BEIJING AUTOMATION CONTROL EQUIPMENT INSTITUTE



• Alpha 09(A)



• Alpha 12



• Alpha 03A

Overview of product

The institute has capabilities to develop and produce high/medium/low-end land locating/ orientating system. Currently, it can produce multiple types of mature products based on fiber optic gyro and ring laser gyro, which can be used for self-propelled (vehicular) artillery, rocket artillery, armored reconnaissance vehicle, and other land vehicles in order to provide weapon system and reconnaissance platform with navigation information like accurate position, speed, azimuth and attitude.

Technical characteristics

High precision; convenient operation; free of calibration during life cycle; alignment; automatic zero speed correction, and multiple information fusion in traveling process; high-precision surveying and mapping data with the optional navigation post-processing software.

Field of application

Self-propelled (vehicular) artillery, rocket artillery, armored reconnaissance vehicle and other land vehicles.

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TYPE	Alpha 09	Alpha 12	Alpha 03A
Performance			
Azimuth accuracy	2mils(RMS)	1mils(RMS)	0.4mils(RMS)
Elevation accuracy	1mils(RMS)	0.5mils(RMS)	0.15mils(RMS)
Horizontal position(INS/VMS)	0.25%DT	0.1%DT	0.05%DT
Vertical position(INS/VMS)	0.2%DT	0.05%DT	0.02%DT
Environment	Full MIL-STD qualified	Full MIL-STD qualified	Full MIL-STD qualified
Physical			
Weight [kg]	≤5	≤8	≤10
Dimensions	150×150×150(mm) 6×6×6(in.)	225×150×127(mm) 8.7×6×4.8(in.)	245×239×250(mm) 9.8×9.8×9.8(in.)
Case Material	Aluminium alloy	Aluminium alloy	Aluminium alloy

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