

AEROcontrol Compact TERRAcontrol

up to 600 Hz
data rate



GNSS / IMU system
Compact FOG



GNSS / IMU system
Compact MEMS



The IGI compact GNSS/IMU system is an ALL-IN-ONE solution. It is designed for airborne sensor systems as well as back-pack solutions and other mobile mapping applications. The system can be upgraded to a dual-antenna solution. Because of its compact size and low weight, the new *AEROcontrol* & *TERRAcontrol* also offers direct geo-referencing for RPAS/UAV/MAV systems.






Two different models are available, based on fibre-optic gyros (*Compact FOG*) or MEMS gyros (*Compact MEMS*). Optimized for mobile mapping and airborne applications, there are different accuracy options available (see table on the rear side).

Both systems are export free (no BAFA, no ITAR restrictions)!






SPECIFICATIONS	<i>Compact FOG</i>	<i>Compact MEMS</i>
Physical Dimensions		
Height:	126.5 mm (4.98 inches)	
Width:	98.0 mm (3.86 inches)	
Depth:	153.5 mm (6.04 inches)	
Weight	2.23 kg (4.92 pounds)	1.65 kg (3.64 pounds)
Power Consumption at Full Performance	12 ... 32 VDC 18W @ 24 VDC 20W @ 12 VDC	12 ... 32 VDC 15W @ 24 VDC 16W @ 12 VDC

AEROcontrol / TERRAcontrol Compact™ - Specifications

PERFORMANCE

Performance*	Compact MEMS** 	Compact MEMS Plus 	Compact FOG-I** 	Compact FOG-II** 	Compact FOG-III 
Position [m]	0.02	0.02	0.02	0.02	0.02
Velocity [m/s]	0.005	0.005	0.005	0.005	0.005
Roll / Pitch [deg]	0.015	0.01	0.008	0.004	0.0025
True heading [deg]	0.03	0.02	0.015	0.01	0.005
Gyro-Bias [deg / h]	1	1	0.03	0.03	0.03
Gyro-RW (Random Walk) [deg / sqrt(h)]	0.07	0.07	0.005	0.005	0.005
Accelerometer Bias [mg]	0.1	0.1	0.3	0.3	0.3
Data rate	up to 400 Hz	up to 600 Hz	up to 256 Hz	up to 256 Hz	up to 600 Hz

PERFORMANCE, after 60 sec GNSS outage

Performance*	Compact MEMS** 	Compact MEMS Plus 	Compact FOG-I** 	Compact FOG-II** 	Compact FOG-III 
Position [m]	0.3	0.15	0.1	0.06	0.05
Roll / Pitch [deg]	0.018	0.012	0.008	0.004	0.003
True heading [deg]	0.03	0.02	0.015	0.01	0.005

* Post Processing ** Upgrades to higher accuracy possible at any time

INTERFACES

Integrated GNSS Receiver

- 544 channels for tracking GPS (L1, L2, L5), GLONASS (L1, L2, L3), BEIDOU (B1, B2, B3), GALILEO (E5ab, AltBoc, E6), IRNSS (L5), QZSS (L1, L2, L5) & SBAS (EGNOS, WAAS, GAGAN, MSAS, SDCM, L5 tracking) on both antennas
- Precise and robust heading calculation
- L-band channel, support for TERRASTAR corrections

Communication

- Ethernet: Fast Ethernet LAN Port
- Serial Port: 1 x RS232
- Discretes: PPS Output, 3 x Event Mark Input
- Antenna: 2 x SMB type

Options

- Combination with flight management system CCNS-5 or as stand-alone system
- BEIDOU, IRNSS, GALILEO, QZSS & SBAS, TERRASTAR
- Dual Antenna Support
- *IGI Precise Leveling* for stabilized mounts or *IGI Optical Odometer*

Processing Software

AEROoffice for INS post-processing,
incl. GrafNav & BINGO30 for GNSS post-processing & aerial triangulation

System control & Data storage

- Webinterface for system control
- 64 GB internal storage
- FTP-server for data download
- External SDCard possibility
- Data rate 64 Hz .. 600 Hz

export free
no BAFA, no ITAR

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