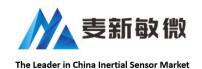


INERTIAL MEASUREMENT UNITS





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U300-A INDUSTRIAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±100 °/sec	±10 /±20 /±40 g
Bias in-run stability (Allan)	5 °/hr	0.08 mg
Bias repeatability	5 °/hr	0.12 mg
Noise (Random walk)	0.12 °/√h	0.1 m/sec/ √ h
Scale factor error	0.1%FS	0.15 %FS
Size	59.6 x 59 x 23.5 mm	
Weight	120 g	









U300-B INDUSTRIAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±125/±250/±500/±1000 °/sec	±3 /±6 /±12 /±24 g
Bias in-run stability (Allan)	7 °/hr	0.08 mg
Bias repeatability	7 °/hr	0.18 mg
Noise (Random walk)	0.12 °/√h	0.09 m/sec/√h
Scale factor error	0.1 %FS	0.1 %FS
Size	22 x 22 x 7.4 mm	
	_	

U3000 INDUSTRIAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±100 °/sec	±10 /±20 /±40 g
Bias in-run stability (Allan)	3 °/hr	0.05 mg
Bias repeatability	3 °/hr	0.12 mg
Noise (Random walk)	0.09 °/√h	0.03 m/sec/√h
Scale factor error	0.08 %FS	0.1 %FS
Size	59.6 x 53.4 x 24 mm	













U3500 INDUSTRIAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±2000 °/sec	±12 g
Bias in-run stability (Allan)	1.7~4.2 °/hr	0.028~0.05 mg
Bias repeatability	5.7~4.5 °/hr	0.13-0.24 mg
Noise (Random walk)	0.1~0.6 °/√h	0.04~0.08 m/sec/√h
Scale factor error	***************************************	0.5 %FS
Size	22 x 22 x 10 mm	
Weight	8.0	





U3600 INDUSTRIAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±2000 °/sec	±12 g
Bias in-run stability (Allan)	2.5~5.1 °/hr	0.03~0.06 mg
Bias repeatability	0.05~0.09 °/hr	1.5-2.52 mg
Noise (Random walk)	0.3~0.6 °/√h	0.04~0.08 m/sec/√h
Scale factor error		0.5 %FS
Size	26 x 24 x 12 mm	
Weight	11 g	









U3700 INDUSTRIAL GRADE

	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±2000 °/sec	±12 g
Bias in-run stability (Allan)	1.76~5.1 °/hr	0.021~0.06 mg
Bias repeatability	0.03~0.09 °/hr	0.6~2.52 mg
Noise (Random walk)	0.21~0.6 °/√h	0.028~0.08 m/sec/√h
Scale factor error		0.5 %FS
Size	60 x 40 x 20 mm	

U5000 TACTICAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±400 °/sec	±10 g
Bias stability (10s)	3 °/hr	0.15 mg
Bias repeatability	3 °/hr	0.15 mg
Noise (Random walk)	0.15 °/√h	0.17 m/sec/√h
Scale factor error	0.015 %FS	0.05 %FS
Size	44.8 x 38.6 x 21.5 mm	
Weight	60 g	











U6300 TACTICAL GRADE

	GYROSCOPES	ACCELEROME TERS
Maximum dynamic range	±450 °/sec	±20 g
Bias in-run stability (Allan)		
Full-temperature bias stability	5 °/hr	0.15 mg
Noise (Random walk)	0.02 °/√h	0.02 m/sec/√h
Scale factor error	0.01 %FS	0.01 %FS
Size		
Weight	50 g	







U6488 TACTICAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±450 °/sec	±20 g
Bias in-run stability (Allan)	1~4 °/hr	0.0005~0.15 mg
Full-temperature bias stability	5~8 °/hr	0.15~1 mg
Noise (Random walk)	0.03~0.08 °/√h	0.02~0.05 m/sec/√h
Scale factor error	0.01 %FS	0.01 %FS
Size	47 x 44 x 14 mm	
Weight	40 g	

U7000 TACTICAL GRADE



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±400 °/sec	±30 g
Bias in-run stability (Allan)	0.1 °/hr	0.015 mg
Bias repeatability	1 °/hr	0.1 mg
Noise (Random walk)	0.05 °/√h	0.01 m/sec/√h
Scale factor error	0.01 %FS	0.05 %FS
Size	11 8 v 38 6 v 21 5 mm	













High Precision FOG Based Inertial Measurement Unit



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±300/±500 °/sec	±10 g
Bias in-run stability (Allan)	0.05 °/hr	0.02 mg
Bias repeatability	0.2 °/hr	0.1 mg
Noise (Random walk)	0.04 °/√h	0.01 m/sec/√h
Scale factor error	100 ppm	300 ppm
Size	φ89 × 78.5 mm	
Weight	600 g	

UF300A NAVIGATION GRADE

High Precision FOG Based Inertial Measurement Unit



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±300 °/sec	±10 g
Bias in-run stability (1σ, 10s)		
Bias repeatability (1σ)	0.03 °/hr	0.05 mg
Noise (Random walk)		
Scale factor error	10 ppm	100 ppm
Size	145 x 122 x 125 mm	









UF300B/UF300C TACTICAL GRADE

High Precision FOG Based Inertial Measurement Unit



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±300/±1000 °/sec	±10 g
Bias in-run stability (1σ, 10s)	0.08/0.1 °/hr	0.05/0.07 mg
	0.08/0.1 °/hr	
Noise (Random walk)	0.008/0.01 °/√h	0.007/0.01 m/sec/√h
Scale factor error		200/300 ppm
Size	145 x 122 x 125 mm	
Weight	1800 ±50 g	

UF100A TACTICAL GRADE

High Performance FOG Based Inertial Measurement Unit



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±300/±500 °/sec	±10 g
Bias in-run stability (Allan)		
Bias repeatability		
Noise (Random walk)	0.04 °/√h	0.01 m/sec/√h
Scale factor error	100 ppm	300 ppm
Size	φ89 × 78.5 mm	
*** * * * *	000	









UF3X80-A/UF3X80-B TACTICAL GRADE

High Performance FOG Based Inertial Measurement Unit

CVPOSCOPES



	GIRUSCUPES
Maximum dynamic range	±500 °/sec
Bias in-run stability (1σ, 10s)	0.3/0.5 °/hr
Bias repeatability (1σ)	0.3/0.5 °/hr
Noise (Random walk)	0.03/0.02 °/√h
Scale factor error	30/50 ppm
Size	φ80 × 70 mm
Maight	600 150 %

ACCELEROMETERS

according to customer's requirement either made by MEMS Accelerometers or by Quartz Accelerometers

UF3X90-A/UF3X90-B TACTICAL GRADE

High Precision FOG Based Inertial Measurement Unit



	GYROSCOPES	
Maximum dynamic range	±500 °/sec	
Bias in-run stability (1σ, 10s)	0.1/0.2 °/hr	
Bias repeatability (1σ)	0.1/0.2 °/hr	
Noise (Random walk)	0.01/0.02 °/√h	
Scale factor error	30/50 ppm	
Size	φ90 × 78 mm	
Woight	780 +50 a	







ACCELEROMETERS

according to customer's requirement either made by MEMS Accelerometers or by Quartz Accelerometers







UF3X100-A/UF3X100-B NAVAIGATION GRADE

High Performance FOG Based Inertial Measurement Unit



GYROSCOPES

Maximum dynamic range ± 500 °/secBias in-run stability (1σ, 10s)0.05/0.1 °/hrBias repeatability (1σ)0.05/0.1 °/hrNoise (Random walk)0.005/0.003 °/√hScale factor error0.005/0.003 °/mSize0.005/0.003 °/mWeight0.005/0.003 °/m

ACCELEROMETERS

......Can be customerized according to customer's requirement either made by MEMS Accelerometers or by Quartz Accelerometers

UF500 TACTICAL GRADE

High Performance FOG and Quartz Flexible Accl Combined IMU



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±360 °/sec	±50 g
Bias in-run stability (1σ, 10s)		
Bias repeatability (1σ)	0.8 °/hr	0.1 mg
Noise (Random walk)	0.08 °/√h	0.007 m/sec/√h
Scale factor error		
Size	80 x 80 × 60 mm	



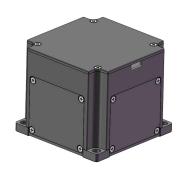






UF600 TACTICAL GRADE

High Performance FOG and MEMS Accelerometer Combined IMU



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±900 °/sec	±50 g
Bias in-run stability (Allan)	0.2 °/hr	0.2 mg
Bias repeatability (1σ)	0.2 °/hr	0.2 mg
Noise (Random walk)	0.05 °/√h	0.01 m/sec/√h
Scale factor error	100 ppm	100 ppm
Size	63 x 63 × 53mm	
Weight	350 a	

UF700 TACTICAL GRADE

High Performance FOG and Quartz Flexible Accl Combined IMU



	GYROSCOPES	ACCELEROMETERS
Maximum dynamic range	±800 °/sec	±30 g
Bias in-run stability (Allan)		
Bias repeatability (1σ)	0.5 °/hr	0.06 mg
Noise (Random walk)	0.05 °/√h	0.01 m/sec/√h
Scale factor error		
Size	80 x 80 × 60 mm	











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Unmanned Aerial Vehicles



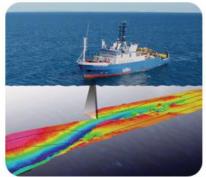
Satellites



Autonomous Vehicles



Remotely Operated Underwater Vehicles



Maritime Echosounder
Application



Petroleum Extraction and Exploration