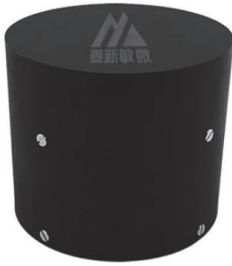


U-F3X80: FIBER OPTIC GYROSCOPE IMU

■ PRODUCT DESCRIPTION



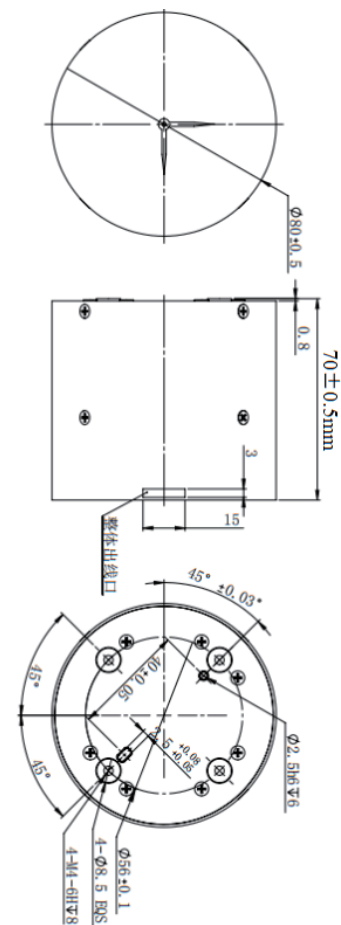
Fiber optical IMU (inertial measurement unit) is a small missile, guided bomb navigation guidance, attitude measurement and control system development of inertial products, by three solid state fiber gyroscope, three quartz accelerometer and data packing board, measuring the carrier movement angular velocity and line acceleration, for the carrier attitude and navigation control, measurement results through the RS422 serial port output.

■ PRODUCT MAIN SPECIFICATION

Fiber Optic Gyroscope	U-F3X80-H	U-F3X80-M	Unit
Zero bias stability (Under room temperature)	≤0.30	≤0.50	°/hr
Zero bias repeatability (Under certain temperature, step by step, day by day)	≤0.30	≤0.50	° /hr
The Scale factor of Repeatability (Under room temperature)	≤30	≤50	ppm
The Scale factor of asymmetry (Under certain temperature)	≤20	≤30	Ppm
The Scale factor of Nonlinearity (Under certain temperature)	≤20	≤30	ppm)
Threshold	≤0.50		° /hr
Dynamic range of angular velocity	±500		°/s
Bandwidth	≥100		Hz
Dimension	80**80*70		mm
Weight (including accelerometer)	780±20		g
Working temperature	-40~+65		°C

Quartz Accelerometer	Specification	Unit
Range	≥±40	g
The Scale factor temperature coefficient	≤100	ppm/°C
The Scale factor monthly stability	≤100	ppm
The Bias value	≤±7	mg
The Bias temperature coefficient	≤100	μg / °C
The Partial monthly stability	≤100	μg
The Second-order nonlinear coefficient	≤20	μg /g ²
Mounting angle	≤200	"
Appearance	No scratches, cracks, or rust	
Insulation	≥20MΩ, (100V), 25°C±5°C、 humidity≤80%	

■ PRODUCT DIMENSION



■ PRODUCT APPLICATION

- Stabilization platform equipment
- Marine survey
- Ship navigation attitude measurement
- North finding instrument
- Crane bin and guide head
- Petroleum geological logging
- Underwater navigation