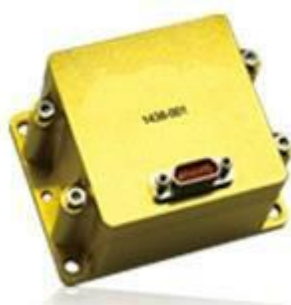


## Technical specifications

	Parameter	ER-MIMU-03
Gyro Performance	Range	$\pm 300^\circ/\text{s}$ (Extendable, $\pm 100^\circ/\text{s}\sim\pm 5000^\circ/\text{s}$ )
	Bias Stability	$\leq 10^\circ/\text{h}$
	Bias repeatability	$\leq 10^\circ/\text{h}$
	Bias Instability(Allan Variance)	$\leq 2^\circ/\text{h}$
	Angular Random Walk	$\leq 0.15^\circ/\text{h}$
	Scale Factor Nonlinearity	$\leq 300\text{ppm}$
	Scale Factor repeatability	$\leq 200\text{ppm}$
	Sensitive Axis Misalignment(RMS)	0.5mrad
Accelerometer Performance	Range	$\pm 15\text{g}$ (Extendable, $\pm 2\text{g}\sim\pm 200^\circ/\text{s}$ )
	Bias Stability	0.5mg
	Bias repeatability	0.5mg
	Scale Factor Nonlinearity	$\leq 500\text{ppm}$
	Scale Factor repeatability	$\leq 300\text{ppm}$
	Sensitive Axis Misalignment	0.5mrad
System Performance	Weight	$\leq 250\text{g}$
	Size	70mm $\times$ 54mm $\times$ 39mm
	Supply Voltage	11~12V, Voltageclamp $> 15\text{v}$
	Supply Consumption	$\leq 1.5\text{w}$
	Interface	RS422
	Data Rate	400Hz
	Bandwidth	Extendable,5~480Hz, Typ:60Hz
	Vibration Level	10grms(10~2000Hz)
	Shock Resistance	5000g
	Operate Temp	$-45^\circ\text{C} \sim +85^\circ\text{C}$
	Storage Temp	$-55^\circ\text{C} \sim +105^\circ\text{C}$
All values typical at +25,+12Vdc unless otherwise statement		



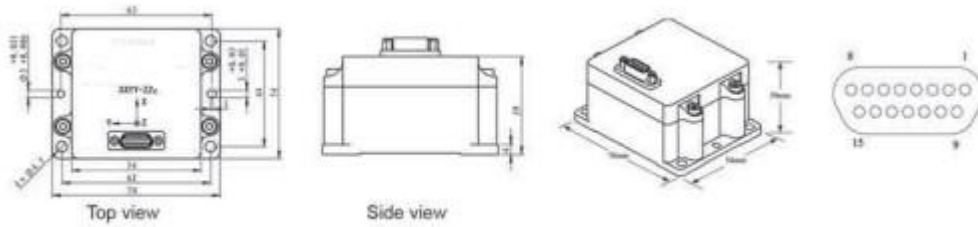
## Applications

Integrated Navigation Systems & Inertial Guidance System

Flight Control & Guidance System

Attitude Heading Reference Systems(AHRS)  
 Stabilization of Antennas, Cameras & Platforms

**Structure(unit:mm)**



1	VCC	Power(+12v)
2	GND	Power Ground
3	R1+	RS422 Positive Input(interface1)
4	R1-	RS422 Negative Input(interface1)
5	T1-	RS422 Negative Output(interface1)
6	T1+	RS422 Positive Output(interface1)
7	GND1	RS422 Ground(interface1)
8-9	NC	No Connection
10	R2*	RS422 Negative Output(interface2)
11	R2-	RS422 Negative Output(interface2)
12	T2-	RS422 Positive Output(interface2)
13	T*	RS422 Positive Output(interface2)
14	GND2	RS422 Ground(interface2)
15	Shield	Shield Ground