

# LEARN

The Dual-Axis Gyro module carries the IDG-500 from InvenSense.

The IDG-500 uses complex, high-performance MEMS technology to offer 500°/sec full scale range and 2mV/°/sec sensitivity of rotation, and also includes a patented “Auto Zero” feature for minimizing bias drift over temperature.

Because temperature sensing is core to its function, the IDG-500 is also able to read out temperatures from -20 to 85 C.

This versatile chip has a number of additional integrated features, such as a 4.5x second gain stage amplifier, as well as built-in low-pass filters.

# CONNECT

Sensor		Arduino
Vref	→	5V
GND	→	Ground
Xout	→	Analog 0
Yout	→	Analog 1

# CODE

```
void setup() {  
  Serial.begin(9600);  
}  
  
int x0;  
int y0;  
  
void loop () {  
  x0 = analogRead(0);  
  y0 = analogRead(1);  
  
  Serial.print(x0);  
  delay(5);  
  Serial.print(" : ");  
  delay(5);  
  Serial.println(y0);  
  delay(5);  
}
```

# SENSOR CHEAT SHEET

[www.liquidware.com](http://www.liquidware.com) :: [www.moderndevic.com](http://www.moderndevic.com)