



Focus on Attitude Sensor

<https://wiki.wit-motion.com/english>

## 1.1 Setting

Type	Function	Specs	Commands
System	Reset		FF AA 00 01 00
	Sleep		FF AA 22 01 00
	Calculation	9-axis algorithm 6-axis algorithm	FF AA 24 01 00 FF AA 24 00 00
	Installation	Horizontal Vertical	FF AA 23 01 00 FF AA 23 00 00
	Instruction start	Yes No	FF AA 2d 00 00 FF AA 2d 01 00
	Alarm	X axis min X axis maximum Y axis minimum Y axis maximum Hold time  Alarm status: normally open normally closed	FF AA 5A XMINL XMINH FF AA 5B XMAXL XMAXH FF AA 5E YMINL YMINH FF AA 5F YMAXL YMAXH FF AA 59 DELAYTL DELAYTH FF AA 62 00 00 FF AA 62 01 00
	Calibration	Acceleration Calibration	Acceleration Calibration calibration finished
Magnetic filed calibration		Magnetic filed calibration finished	FF AA 01 07 00 FF AA 01 00 00 FF AA 00 00 00
Reset height to 0			FF AA 01 03 00
Gyroscope automatically calibration		Yes No	FF AA 63 00 00 FF AA 63 01 00
Reset Z-axis to 0 degree			FF AA 01 04 00
Angle reference			FF AA 01 08 00



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	setting		
	Saving		FF AA 00 00 00
范围	Acceleration	2g 4g 8g 16g	FF AA 21 00 00 FF AA 21 01 00 FF AA 21 02 00 FF AA 21 03 00
	Gyroscope/ Angular Velocity	250deg/s 500deg/s 1000deg/s 2000deg/s	FF AA 20 00 00 FF AA 20 01 00 FF AA 20 02 00 FF AA 20 03 00
	Bandwidth	256HZ 184HZ 94HZ 44HZ 21HZ 10HZ 5HZ	FF AA 1F 00 00 FF AA 1F 01 00 FF AA 1F 02 00 FF AA 1F 03 00 FF AA 1F 04 00 FF AA 1F 05 00 FF AA 1F 06 00
Content	Output content		FF AA 01 RSWL RSWL
Communication	Communication rate	BAUD: baud rate setting 0x00: 2400 0x01: 4800 0x02: 9600 (default) 0x03: 19200 0x04: 38400 0x05: 57600 0x06: 115200 0x07: 230400 0x08: 460800 0x09: 921600	FF AA 04 BAUD 00
	Return rate	RATE 0x00: 0.1Hz 0x01: 0.2Hz 0x02: 0.5Hz	FF AA 03 RATE 00



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		<p>0x03: 1Hz          0x04: 2Hz          0x05: 5Hz          0x06: 10Hz          0x07: 20Hz          0x08: 50Hz          0x09: 100Hz          0x0a: 125Hz          0x0b: 200Hz          0x0c: more than          200HZ (only for          specific model)</p>	
	Address	<p>IICADDR:IICadd          ress          0x00~          0xff:0x00~0xff</p>	<p>FF AA 1A          IICADDR 00</p>
Port mode	D0 mode	<p>D0MODE:          D0Port mode          0x00: Analog          input (default)          0x01: Digital          input          0x02: Output          digital high level          0x03: Output          digital low level          0x04: Output          PWM</p>	<p>FF AA 0E          D0MODE 00</p>
	D1 mode	<p>D1MODE: D1          port mode          0x00: Analog          input (default)          0x01: Digital          input          0x02: Output          digital high level          0x03: Output          digital low level          0x04: Output</p>	<p>FF AA 0F          D1MODE 00</p>



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		PWM 0x05: CLR relative pose	
	D2 mode	D2MODE: D2 port mode 0x00: Analog input (default) 0x01: Digital input 0x02: Output digital high level 0x03: Output digital low level 0x04: Output PWM	FF AA 10 D2MODE 00
	D3 mode	D3MODE: D3 port mode 0x00: Analog input (default) 0x01: Digital input 0x02: Output digital high level 0x03: Output digital low level 0x04: Output PWM	FF AA 11 D3MODE 00
Port PWM pulse width	D0PWM pulse width		FF AA 12 D0PWMTL D0PWMTH
	D1PWM pulse width		FF AA 13 D0PWMTL D0PWMTH
	D2PWM pulse width		FF AA 14 D0PWMTL D0PWMTH
	D3PWM pulse width		FF AA 15 D0PWMTL D0PWMTH
Port PWM	D0PWM Period		FF AA 16



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Period			D0PWMTL D0PWMTH
	D1PWM Period		FF AA 17 D1PWMTL D1PWMTH
	D2PWM Period		FF AA 18 D2PWMTL D2PWMTH
	D3PWM Period		FF AA 19 D3PWMTL D3PWMTH



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