

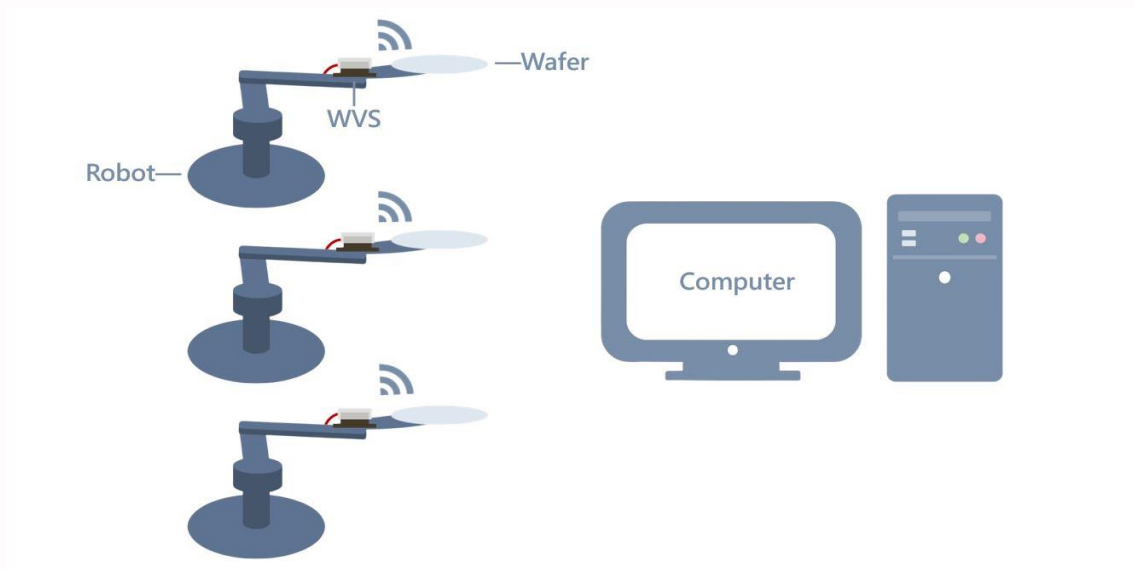
# Wireless Vibration Sensor



## Specification

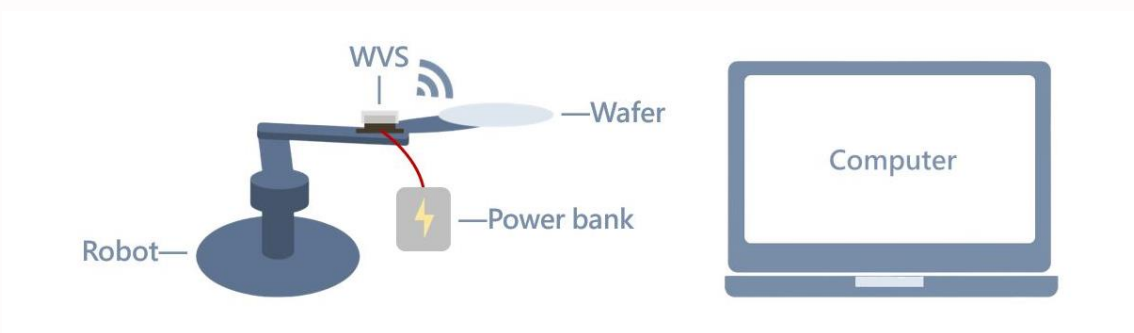
Sensor	Triaxial accelerometer
Range	$\pm 2g/\pm 4g/\pm 8g$
Typical non-linearity	$\pm 0.1\%$ F.S.@ $\pm 2g$
Bandwidth	>500Hz
Sampling rate	Single sensor: 1000,500,250,125 Multiple sensor: 250,125
Resolution	20-bit
Noise spectral density	$25\mu g/\sqrt{\text{Hz}}@ \pm 2g$
Zero-g offset	$\pm 75\text{mg}@ \pm 2g$
Zero-g offset vs. Temperature	$\pm 0.15\text{mg}/^{\circ}\text{C}@ \pm 2g$
Wireless	Blue tooth 4.0
Wireless range	10m@1kS/s, 20m@500S/s, 25m@250S/s, 30m@125S/s
Power supply	$5V \pm 0.5V$
Current consumption	<100mA
Operating Temperature Range	-10~85°C
Size	39*30*11mm
Weight	28g
Power	External power supply

## Scenario 1—Wireless vibration monitoring of the machine (multiple sensors)

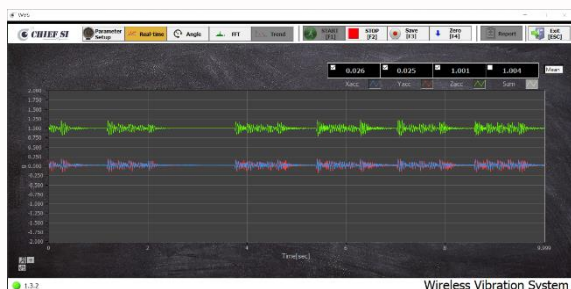


- ✓ Multiple sensors.
- ✓ Machine supply electricity: 5V
- ✓ Uninterrupted monitoring.
- ✓ Providing DLL (dynamic-link library) with measuring functions for integration.

## Scenario 2—Research and analysis (one sensor)



- ✓ High-speed measurement with one sensor.
- ✓ Power bank supply electricity: 5V
- ✓ Real-time measurement and analysis.
- ✓ Provide measuring software for inclination angle and spectrum analysis.



Real-time



Angle