

# Actiwatch Specification Sheet



**Spectrum Plus**



**Spectrum PRO**



**AW2**

	<b>Spectrum Plus</b>	<b>Spectrum PRO</b>	<b>AW2</b>
<b>Dimensions</b>	48mm x 37mm x 15mm	48mm x 37mm x 15mm	43mm x 23mm x 10mm
<b>Weight</b>	31 grams (with band)	31 grams (with band)	16 grams (with band)
<b>Case material</b>	ABS blend (biocompatible)	ABS blend (biocompatible)	ABS blend (biocompatible)
<b>Standard wristband</b>	BASF Elastollan 1175A10W (TPU) with Titanium buckle	BASF Elastollan 1175A10W (TPU) with Titanium buckle	BASF Elastollan 1175A10W (TPU) with Titanium buckle
<b>Battery type</b>	Lithium ion rechargeable	Lithium ion rechargeable	Lithium rechargeable
<b>Recharge time</b>	2 hours	2 hours	12-24 hours
<b>Typical battery life (@ 1 min epoch)</b>	60 Days (Activity & Light)	50 Days (Activity, Light, 4 Scores/day)	30 Days (Activity & Light)
<b>Memory size</b>	32 Mbits	32 Mbits	1 Mbit
<b>Memory volatility</b>	Non volatile	Non volatile	Non volatile
<b>Recording duration</b>	60* days @ 1 minute epoch from full charge, all channels	50* days @ 1 minute epoch from full charge, all channels + 4 scores/alerts daily	30 days @ 1 minute epoch, with Activity & Light. Limited by battery life
<b>Accelerometer details</b>	MEMS type accelerometer	MEMS type accelerometer	Solid State Piezoelectric accelerometer
<b>Sampling rate</b>	32 Hz	32 Hz	32 Hz
<b>Light sensor wavelength range</b>	380-750nm	380-750nm	400-900nm
<b>Light measures</b>	Irradiance, Photon flux, Photopic illuminance (Lux)	Irradiance, Photon flux, Photopic illuminance (Lux)	Photopic illuminance (Lux)
<b>Off wrist detection</b>	Yes	Yes	No
<b>Moisture protection rating</b>	All devices are water resistant at 1 m for 30 min per IPX7IEC 60529		
<b>Battery life indicator</b>	In software and on device indicator	In software and on device indicator	In software
<b>Audible off wrist alarm</b>	Yes	Yes	No
<b>Event marker</b>	Yes	Yes	Yes
<b>Communication</b>	Direct USB/Micro USB cable	Direct USB/Micro USB cable	Dock/USB cable
<b>Watch face display</b>	Yes	Yes	No
<b>Software</b>	Software is backwards compatible to include all previous and currently available devices.		
<b>Computer operating system compatibility (not MAC compatible)</b>	All devices are compatible with: Windows 10, 8, 7, XP, Vista (32 & 64bit), Actiware CT, Windows XP Professional; 32 & 64 bit versions of Windows 8 (Professional or Enterprise), 7 (Professional or Ultimate, and Vista (Business or Ultimate). Contact your Actigraphy Representative or Actiwatch Tech Support in Bend, OR for additional questions.		
<b>Computer hardware</b>	All devices: UL60950-1, IEC60950-1 or CSA C22.2#60950-1 Certified IT equipment, 2 GHz or higher process clock speed, keyboard and mouse, USB port		
<b>USB compatibility</b>	All devices: 2.0 or greater		
<b>Warranty</b>	2 year standard warranty		

\*Longer recording duration may be possible with intermittent charging by site/subject.

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