

Actiwatch Specification Sheet



Spectrum Plus



Spectrum PRO



AW2

	Spectrum Plus	Spectrum PRO	AW2
Dimensions	48mm x 37mm x 15mm	48mm x 37mm x 15mm	43mm x 23mm x 10mm
Weight	31 grams (with band)	31 grams (with band)	16 grams (with band)
Case material	ABS blend (biocompatible)	ABS blend (biocompatible)	ABS blend (biocompatible)
Standard wristband	BASF Elastollan 1175A10W (TPU) with Titanium buckle	BASF Elastollan 1175A10W (TPU) with Titanium buckle	BASF Elastollan 1175A10W (TPU) with Titanium buckle
Battery type	Lithium ion rechargeable	Lithium ion rechargeable	Lithium rechargeable
Recharge time	2 hours	2 hours	12-24 hours
Typical battery life (@ 1 min epoch)	60 Days (Activity & Light)	50 Days (Activity, Light, 4 Scores/day)	30 Days (Activity & Light)
Memory size	32 Mbits	32 Mbits	1 Mbit
Memory volatility	Non volatile	Non volatile	Non volatile
Recording duration	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
Accelerometer details	MEMS type accelerometer	MEMS type accelerometer	Solid State Piezoelectric accelerometer
Sampling rate	32 Hz	32 Hz	32 Hz
Light sensor wavelength range	380-750nm	380-750nm	400-900nm
Light measures	Irradiance, Photon flux, Photopic illuminance (Lux)	Irradiance, Photon flux, Photopic illuminance (Lux)	Photopic illuminance (Lux)
Off wrist detection	Yes	Yes	No
Moisture protection rating	All devices are water resistant at 1 m for 30 min per IPX7IEC 60529		
Battery life indicator	In software and on device indicator	In software and on device indicator	In software
Audible off wrist alarm	Yes	Yes	No
Event marker	Yes	Yes	Yes
Communication	Direct USB/Micro USB cable	Direct USB/Micro USB cable	Dock/USB cable
Watch face display	Yes	Yes	No
Software	Software is backwards compatible to include all previous and currently available devices.		
Computer operating system compatibility (not MAC compatible)	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.		
Computer hardware	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		
USB compatibility	All devices: 2.0 or greater		
Warranty	2 year standard warranty		

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

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