PHILIPS RESPIRONICS

Actigraphy motion biosensors

Actiwatch specification sheet

	Spectrum+	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 Rechargable	Lithium Ion Rechargable	Lithium Ion Rechargable
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 volitile	Non volitile	Non volitile
Record Time	60 days @ 1 minute epoch from full charge, all channels	50 days @ 1 minute epoch from full charge, all channels + 4 scores/alarms daily	30 days @ 1 minute epoch, with Activity & Light. Limited by battery life
Accelerometer details	MEMS type accelerometer	MEMS type accelerometer	Solid State Piezo electric accelerometer
Sampling rate	32 Hz	32 Hz	32 Hz
Light Sensor Wavelength Range	400-700nm	400-700nm	400-900nm
Light Measures	Irradience, Photon flux, Photopic illuminance (Lux)	Irradience, Photon flux, Photopic illuminance (Lux)	Irradience, Photon flux, Photopic illuminance (Lux)
Off Wrist Detection	Yes	Yes	No
Moisture Protection Rating	All devices are Waterproof 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	NA
Event Marker	Yes	Yes, press and hold	Yes
Communication	Direct USB/Micro USB cable	Direct USB/Micro USB cable	Dock/USB cable
Watchface Display	Yes	Yes	No
Software	All devices use the same software		
Computer OS	All devices are compatible with: Windows 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 information regarding Windows 10.		
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		