

# MOTIONLOGGER ACTIGRAPHS TO SUIT ALL APPLICATIONS

## MICROMINI-MOTIONLOGGER ACTIGRAPH



- 32K Non-Volatile Memory
- One Minute Fixed Epoch Length
- Records in Zero Crossing or Proportional Integrated Measure Mode of Operation
- Fully Waterproof

## MICRO MOTIONLOGGER SLEEP WATCH



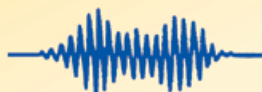
- 192K Non-Volatile Memory
- One Minute Fixed Epoch Length
- Multi-Channel Recording
- Off-Wrist Detection
- Time-of-Day Display
- Event Marker
- Water Resistant

## BASIC MOTIONLOGGER ACTIGRAPH



- 2MB Non-Volatile Memory
- Adjustable Epoch Length (which allows for PLM Assessment)
- Multi-Channel Recording
- Event Marker
- Water Resistant
- Available with Light Sensor

*Data Collection is Comparable with All Models:  
95% Sensitivity; 65% Specificity;  
and 88% Overall Agreement with PSG*





**Ambulatory  
Monitoring, Inc.**

**800.341.0066**

[www.ambulatory-monitoring.com](http://www.ambulatory-monitoring.com)

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## ACTIGRAPH Comparison Guide

Company	ActiGraph	Ambulatory Monitoring Inc
Product Name	 ActiSleep monitor	 Motionlogger MicroMini
Website	<a href="http://www.actisleep.com">www.actisleep.com</a>	<a href="http://www.ambulatory-monitoring.com">www.ambulatory-monitoring.com</a>
Cost/Warranty	\$400 per unit/1 year	\$995/1 year
Accelerometer Technology	Triaxial solid-state accelerometer with digital filtering	Piezo-electric Bimorphic Transducer
Product Dimensions	4.3 x 3.8 x 1.5	3.5 cm diameter x 1.1 cm height
Weight Including Batteries and Wrist Band	Monitor weighs 18 grams, 25 grams with deluxe wrist strap, 21 grams with disposable wrist strap	31.2 grams
Batteries	Rechargeable lithium polymer	1 DL2430 Lithium ion coin cell; disposable
Battery Life	8 days	125 days
Type of Memory Storage	4 MB nonvolatile memory	Nonvolatile
Recording Time at 1-Minute Sample Interval	1,410 days	22 days
Logging Intervals	With ActiSleep SW program, 60 seconds. With ActiLife SW program, raw data mode (30 x per second), 1, 2, 3, 5, 10, 15, 30, 60, 120, 180, 240 seconds	1 minute
Light Sensor Type	Photo IC that incorporates a photodiode, and current amplifier in one package	Separate single-channel body-worn recorder (\$795); 2 mm <sup>2</sup> Active Area Linear Planar Photodiode with Integral Photopic Filter
Wavelength Range	400–900 nanometers with peak sensitivity at 600 nanometers	400-700 nanometers, 550 nanometer peak, 40 degree Half Angle Directional Sensitivity
Moisture Protection	Not waterproof or water resistant	10M waterproof
Operating Temp Range	-4°F to 140°F	33°F to 120°F
Communications Interface	USB	IR to USB interface
Computer Operating System Compatibility	Windows XP, Windows Vista, Windows 7	Windows XP, Windows 7, Windows Vista
Peer-reviewed Validation Articles	Yes (citations available with online version)	Yes (citations available with online version)
Additional Features	N/A	Choice of data collection mode (movement frequency or intensity); optional, separate light, temperature, and sound recorders

## Introducing the ActiSleep Monitor

The first sleep specific actigraph from the industry leader in actigraphy devices!



### The ActiSleep Monitor features:

- ✓ Triaxial accelerometer
- ✓ Ambient light sensor
- ✓ 4 MB flash memory
- ✓ Sleek and compact design
- ✓ 8 day rechargeable battery
- ✓ Direct USB connection



Find out more at:  
[www.actisleep.com](http://www.actisleep.com)

## Have you seen a SPIDER?




Rhythmink, your newest electrode manufacturer in the PSG market, offers a variety of electrodes and services including the:



Patented **SPIDER™** EEG Electrode;  
**Disposable** Cup Electrodes;  
Recording **Sticky Pad™** Surface Electrodes; and  
Custom manufacturing and private labeling services.

To request **FREE** samples, more information or to place an order, visit [Rhythmink.com](http://Rhythmink.com) or call **866.633.3754** [803.252.1222].



# ACTIGRAPH Comparison Guide

Company	Ambulatory Monitoring Inc
Product Name	 Motionlogger Micro Sleep Watch
Website	<a href="http://www.ambulatory-monitoring.com">www.ambulatory-monitoring.com</a>
Cost/Warranty	\$1,295/1 year
Accelerometer Technology	Piezo-electric Bimorphic Transducer
Product Dimensions	3.5 cm diameter x 1.2 cm height
Weight Including Batteries and Wrist Band	31.2 grams
Batteries	1 DL2430 Lithium ion coin cell; disposable
Battery Life	125 days
Type of Memory Storage	Nonvolatile
Recording Time at 1-Minute Sample Interval	4 months
Logging Intervals	1 minute
Light Sensor Type	N/A
Wavelength Range	N/A
Moisture Protection	10M waterproof
Operating Temp Range	33°F to 120°F
Communications Interface	IR to USB interface
Computer Operating System Compatibility	Windows XP, Windows 7, Windows Vista
Peer-reviewed Validation Articles	Yes (citations available with online version)
Additional Features	Real-time display with time zone adjust feature; event marker with visual feedback; visual activity collection indicator; simultaneous multimode data collection (movement frequency and intensity); off-wrist detection channel

Company	Philips Respironics		SOMNOmedics GmbH (Germany)	
<b>Product Name</b>	 Actiwatch 2	 Actiwatch Spectrum	 SOMNOwatch™	 SOMNOwatch™ plus
<b>Website</b>	www.philips.com/actigraphy	www.philips.com/actigraphy	www.somnomedics-diagnostics.com	www.somnomedics-diagnostics.com
<b>Cost/Warranty</b>	1-year standard warranty; extended warranty available	1-year standard warranty; extended warranty available	\$1,730 (set including software)/2 year	\$2,589 (set including software)/2 year
<b>Accelerometer Technology</b>	Solid-state "Piezo-electric"	Solid-state "Piezo-electric"	Miniaturized Poly-Silicone-Surface micromachined sensor (MEMS)	Miniaturized Poly-Silicone-Surface micromachined sensor (MEMS)
<b>Product Dimensions</b>	4.3 cm x 2.3 cm x 1.0 cm	4.8 cm x 3.7 cm x 1.4 cm	4.5 cm (diameter) 1.6 cm (height)	4.5 cm (diameter) 1.6 cm (height)
<b>Weight Including Batteries and Wrist Band</b>	16 grams	30 grams	30 grams	30 grams
<b>Batteries</b>	Lithium cell battery, rechargeable at dock	Lithium coin cell CR 2430	Li-Ion-Accu, inbuilt, rechargeable	Li-Ion-Accu, inbuilt, rechargeable
<b>Battery Life</b>	30-day battery life (at 1-minute epoch)	1-year battery life (with continuous use at 1-minute epoch)	26 days	16 days
<b>Type of Memory Storage</b>	Nonvolatile 1 Mbit	Nonvolatile 2 Mbit	Internal storage card 8 MB	Internal storage card 64 MB
<b>Recording Time at 1-Minute Sample Interval</b>	30 days—Activity and light at 1-minute epoch	36 days—Activity plus 4 channels of light data	45 days when recharged	270 days when recharged
<b>Logging Intervals</b>	15-second, 30-second, 1-minute, 2-minute, 5-minute	15-second, 30-second, 1-minute, 2-minute, 5-minute	Sampling Rate 1 per second up to 256 per second; Storage Rate 1 per 120 seconds (2 minutes) up to 256 per second	Sampling Rate 1 per second up to 256 per second; Storage Rate 1 per 120 seconds (2 minutes) up to 256 per second
<b>Light Sensor Type</b>	Silicon photodiode	Red, green, and blue color sensitive photodiodes	NPN-Phototransistor	NPN-Phototransistor
<b>Wavelength Range</b>	400-900 nanometers	Blue 400-500 nanometers; green 500-600 nanometers; red 600-700 nanometers	350-970 nanometers	350-970 nanometers
<b>Moisture Protection</b>	Immersible 1m for 30 minutes per IPX7 IEC 60529	Immersible 1m for 30 minutes per IPX7 IEC 60529	Water resistant (waterproof on demand)	Water resistant (waterproof on demand)
<b>Operating Temp Range</b>	41°F to 104°F	41°F to 104°F	41°F to 104°F	32°F to 123°F
<b>Communications Interface</b>	Direct connect to dock 57.6 kbps; USB to PC (1.1 and 2.0 compatible)	Infrared to dock 57.6 kbps; USB to PC (USB 1.1 and 2 compatible)	USB	USB
<b>Computer Operating System Compatibility</b>	Actiware: Windows® 2000, Windows XP, or Windows Vista; Actiware CT: Windows 2000, Windows XP Professional, Windows Vista Business, or Windows Vista Ultimate	Actiware: Windows® 2000, Windows XP, or Windows Vista; Actiware CT: Windows 2000, Windows XP Professional, Windows Vista Business, or Windows Vista Ultimate	Windows XP	Windows XP
<b>Peer-reviewed Validation Articles</b>	Yes (citations available with online version)	Yes (citations available with online version)	N/A	N/A
<b>Additional Features</b>	Device also records in light-only mode; event marking; shock and vibration resistant; dust, heat, and perspiration resistant; latex/nickel free; biocompatibility tested; adheres to the requirements of 21 CFR Part 820, and ISO 9001 and 13485 certification; multiple data collection modes; NIST traceable calibration; sleep mode	Device also records in a red, green, and blue light only mode; off-wrist detection; event marking; shock and vibration resistant; dust, heat, and perspiration resistant; latex/nickel free; biocompatibility tested; adheres to the requirements of 21 CFR Part 820, and ISO 9001 and 13485 certification; programmable time/date display with backlight; status feedback; multiple light and activity data collection modes; NIST traceable calibration; sleep mode	Event marker button; 1 external channel (2nd Actisensor, ECG, EEG, temperature); linking of several SOW recordings thanks to high synchronization rate; programmable start and stop periods for several recording periods	Event marker button; 8 channels in 3 predefined modules (Sleep Scoring R&K, EEG module, respiratory screening module, and blood pressure module); linking of several SOW recordings thanks to high synchronization rate; programmable start and stop periods for several recording periods; programmable tone generator