



Powerful, fast, and flexible monitoring

Actical physical activity monitoring system

Actical provides you with an enhanced, easy-to-use, and affordable method for measuring a subject's physical activity energy expenditure level and step count. Now with a raw data collection mode to facilitate algorithm development and flexibility due to fast epoch lengths, the Actical system has the power to help you answer your research questions quickly.

PHILIPS

RESPIRONICS

sense and simplicity

Parameter	Value	
Specification		
Size	1.14 in x 1.45 in x 0.43 without standard band 29 mm x 37 mm x 11 mm	
Weight	0.56 ounces, 16 grams, without standard band 0.77 ounces, 22 grams, with standard band	
Case materials	Polyurethane/polyester alloy	
Frame and battery cover	Titanium	
Attachment options	Wrist: Nylon wrist band (standard); elastic band (optional) Waist: Belt clip or waist band (optional) Ankle: Elastic band (optional)	
Battery	CR2025 lithium coin cell (user replaceable)	
Memory capacity	32 MB	
Maximum continuous recording time	Raw mode 12 days	Epoch mode 1 second + steps 194 days
Accelerometer details		
Range	0.05 G to 2 G	
Bandwidth	.035 Hz to 3.5 Hz	
Resolution	100 counts or 0.02 G (at 1 G peak)	
Sampling rate	32 Hz	
Sampling modes	Raw + steps Epoch: 1, 2, 5, 15, 30, 60 sec Epoch + steps: 1, 2, 5, 15, 30, 60 sec	
Environmental attributes		
Moisture protection	Waterproof IEC60529 IPX7 1 meter for 30 min	
Storage/transportation temperature range	-4 to 140°F (-20 to 60°C) to 95% humidity	
Operating temperature range	41 to 104°F (5 to 40°C) 15% to 95% humidity	
Computer attributes		
Communication interface	9-pin RS-232 serial port (standard with ActiReader) 9-pin serial to USB adapter (optional)	
Operating system compatibility	Windows XP, Windows Vista (32 and 64 bit), Windows 7 (32 and 64 bit)	
Hardware platform	Personal computer	

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CAUTION: US federal law restricts these devices to sale by or on the order of a physician.

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