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.

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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	Epoch mode 1 second + steps
	12 days	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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