

GENEActiv Product Information Sheet



Physical Parameters	
Size	43mm x 40mm x 13mm
Weight	16g (without strap)
Main Housing Material	PC/ABS (medical device grade)
Light Guide Material	PC (medical device grade)
Data Contact Material	Gold-plated
Strap	PU resin
Battery Type	Rechargeable lithium ion polymer
Environmental Protection	
Moisture Ingress	Water-resistant to 10m (IP68 - 1m 24hrs)
Material Ingress	Dust tight (IP68)
Operating Temperature	5 to 40 deg C
Mechanical Impact	0.5m drop resistant
Measurement Capabilities	
Memory	Versions 1.2 & 1.3 : 2.0 Gb non-volatile, version 1.1 : 1.0 Gb non-volatile
Logging Frequencies	Selectable 10-100Hz
Maximum Logging Periods	60 days @20hz, 14 days @100hz (see table below)
Internal Clock	
Type	Quartz Real Time Clock
Frequency	32.768kHz
Accuracy	Versions 1.2 & 1.3 : +/- 20ppm (+/- 1.7s per day), version 1.1 : +/- 20ppm (+/- 1.7s per day)
Acceleration Measurements	
Sensor Type	MEMS
Range	+/- 8g
Resolution	12 bit (3.9mg)
Light Measurements	
Sensor Type	Versions 1.2 & 1.3: digital, version 1.1: analogue
Peak wavelength	Versions 1.2 & 1.3: 560nm, version 1.1: 900nm
Range (typical)	Version 1.3: 0-50,000 Lux, version 1.2: 0-40,000 Lux, version 1.1: 0-2,000 Lux
Resolution (typical)	Versions 1.2 & 1.3: 3-48 Lux dynamic, version 1.1: 5 Lux
Accuracy	+/- 30% @ 1000 Lux calibration
Event Logger	
Sensor Type	Mechanical membrane switch
Temperature Measurements	
Sensor Type	Digital Temperature Sensor
Range	0 to 60 °C
Resolution	0.25 °C
Accuracy	Versions 1.2 & 1.3: +/- 1 °C, version 1.1: +/- 2 °C
Measurement Frequency	Every 30s minimum
USB Connection	
Device USB	Versions 1.2 & 1.3 : USB High Speed, version 1.1 : USB Full Speed
Charging Cradle	Format 4 unit cradle USB 2.0 High Speed
Charge Time	4 hours
Data Download Time	For SN starting 00 up to 20 minutes for 4 concurrent units. For SN starting 02 under 10 minutes for 4 concurrent units
Radio and Wireless Signals	
GENEActiv 1.3 has a Bluetooth module which is qualified Bluetooth 4.2 (2.4 GHz band) Charger Cradle does not receive or transmit any wireless signals.	



About GENEActiv

The GENEActiv has a robust, neutral design for objectively monitoring activity, sleep, and lifestyle continuously for up to two months, without the need for charging. The GENEActiv system is low burden for both patients and sites with proven high adherence in many studies. It produces raw, unfiltered tri-axial acceleration data in SI units in an open data format. Bluetooth functionality is available for real-time adherence data, if required.

FEATURES

- Designed for long- term 24 hour wear
- Up to 2 months battery life
- Can be worn in multiple body locations
- 100% waterproof lightweight design
- Ambient light and temperature sensor
- Open-source analytics and open SDKs available
- Real-time adherence data available

The GENEActiv is a comfortable, lightweight and waterproof body-worn accelerometer that delivers continuous recording of high-resolution unfiltered acceleration, environmental light and temperature at any body location.

6 Nene Road,
Bicton Industrial Park,
Kimbolton,
Cambs, PE28 0LF, UK

ActivInsights US LLC,
901 S Mopac Express,
Suite 300 – Unit 334 Austin,
Texas, 78746, USA



ActivInsights

+44 (0)1480 862 082
info@activinsights.com
www.activinsights.com