

Record awake, unshaved cats and dogs

A small, non-invasive system that records muscle activity, heart rate and motion on awake animals, with no shaving, sedation or implant. Built by a veterinary student and engineers, with validation under way alongside UK academic partners.



Research kits

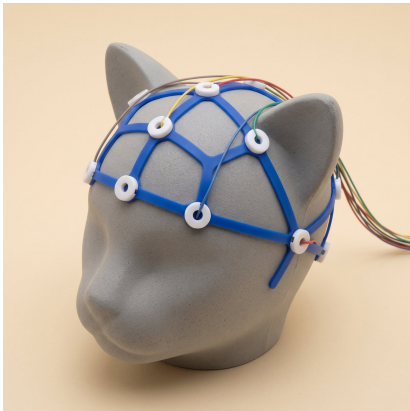
Kit	What is included	Ships from	Price (ex VAT)
Montage Kit	Acquisition board in enclosure (4 channels), six-lead set, 40 silicone mount pieces, 40 snap holders, 12 gold-cup electrodes, 1 jar of conductive electrode paste, placement card, carry case, data export software	Early December 2026	£1,200
Montage + Ear Node Kit	Everything in the Montage Kit, plus 2 wireless ear nodes with the hydrogel interface and 2 packs of 30 hydrogel stickers	March 2027	£1,400
Complete Kit	Everything in the Montage Kit, plus 2 hydrogel ear nodes and 2 ear nodes with the clip interface, and 2 packs of 30 hydrogel stickers	March 2027	£1,600

Add-ons for kit owners	Price (ex VAT)
Ear node pair, hydrogel interface	£200
Ear node pair, clip interface	£240
Hydrogel stickers, pack of 30	£25
Silicone mount pieces, pack of 10	£30
Snap holders, pack of 20	£15

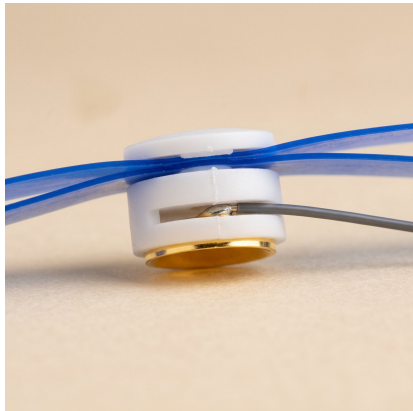
Terms

Discounts	5% on orders of three or more kits.
Payment	Invoice on shipment, payable within 30 days. No deposit needed to hold a quote.
Validity	Prices hold until 31 December 2026, and through 2027 for orders placed against a funded grant budget.
Taxes and shipping	Prices exclude VAT, import duties and shipping, quoted at order.
Warranty and support	12 months on hardware. Direct email support from the engineering team.
Intended use	Research and investigational use only. Not a medical or diagnostic device.

How it works



The modular mount on a feline head layout



A snap holder seats a standard gold cup flat on the skin through the coat

Two ways to reach the skin through fur

Modular montage (all kits)	Snap-together silicone pieces (bar, Y and X) and two-part holders build any electrode layout, from a kitten to a large dog. Each holder seats a 10 mm gold cup flat on the skin. Wired to the board, which sits on the bench or in a vest pocket. Patent pending.
Ear node (Ear Node and Complete kits)	A coin-sized wireless node that sits in front of the ear. Two nodes make a channel across the head. Attaches with a hydrogel sticker (quick, single use) or a clip that grips the coat (reusable, for longer recordings). Patent pending.

Specifications

Channels	4 differential biopotential channels on the board, EMG or ECG selectable in software
Front end	Texas Instruments ADS1299-4, 24-bit; 250 SPS to 16 kSPS per channel
Motion and temperature	Bosch BMI270 6-axis IMU; on-board temperature
Radio	Nordic nRF52840, Bluetooth LE 5, about 10 m indoors
Contact quality	Per-channel electrode impedance logged with every recording
Electrode interface	1.5 mm DIN touchproof; six leads: four signal, reference, bias
Software	Data export and analysis tools included. No subscription.

Where each signal stands today

Muscle activity (EMG) is clearly readable from surface electrodes on awake, unshaved cats in our pilot. **Heart rate (ECG)** is supported by the hardware, and validation with the final electrode placement is under way. **Motion and temperature** are recorded on board. We are happy to share a raw recording with its impedance log on request.

Evidence and partners

Patent pending: US provisional applications cover the mount, holder, ear node and clip. We have published conference papers on the work, and recently submitted a new paper together with a PhD researcher in a University of Cambridge biosignal lab. Validation studies are under way with academic partners in the UK.

Get a written quote: email cathyahn4u@pet-lepathy.com with your species and study, and we reply within two working days.