



NON-INVASIVE TELEMETRY FOR LARGE ANIMALS

Real-time physiological data from freely moving large animals



emkaPACK5 is a non-invasive telemetry system, widely used in large animals studies to monitor the physiology of freely moving large animals, such as dogs, primates, sheeps, minipigs, swine and horses.

- » No surgery is required
- » Instrument an animal in only a few minutes

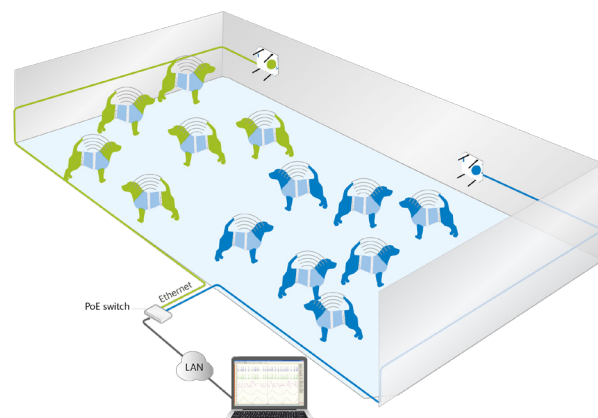


MODULAR

An external transmitter is worn into a jacket and provides simultaneously up to 17 signals from each subject:

- » 9 lead ECG (6 standard leads + 3 chest leads)
- » 2 respiration belt signals
- » Temperature
- » Posture and activity (3 axis + total acceleration)
- » Blood pressure from oscillometric cuff (NIBP), vascular access port (VAP) or easyTEL+ implant

Each signal type is available as an optional add-on, so you buy only what you need and can upgrade at any time.



NO CROSSTALK

- » Physiological measurements captured and radio-transmitted by Bluetooth, prevents any data cross-talk, allowing each subject to freely to move, single or group-housed in its room, during the acquisition.
- » Digital 2 way communication with built-in QoS (Quality of Signal)

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Modular



Simple design



Easy to use



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POWERFUL, FLEXIBLE & COMPACT INFRASTRUCTURE

- » All signals, including respiration, are obtained from the standard transmitter (no hardware upgrades required)
- » Blood pressure requires a small additional module
- » Receivers, positioned in the animals' room (only 1 receiver for 16 animals)
- » Acquisition computer may receive data from multiple receivers located in multiple rooms
- » 1 Ethernet cable per receiver handles data and power
- » Runs 26 to 72 hours on same AA batteries
- » Information on lost electrode & low battery level
- » Respiration/pressure remote on/off



QUICK & EASY ANALYSIS

emkaPACK5 takes full advantage of emka TECHNOLOGIES software suite: IOX2 , ecgAUTO & studyDESIGNER.

- » Easy & seamless calibration of all signals including respiration belts
- » Synchronized video
- » Single analysis platform with à la carte modules: Cardiovascular and respiratory analysis utilize custom parameters and protocols to produce comprehensive data reports. Additional, advanced modules are available for interval analysis, arrhythmia detection, heart rate variability, and more.
- » GLP tools, audit trail and electronic signature
- » Global study data organization and management

