

Add-on to emkaPACK4G non-invasive telemetry

NON-INVASIVE RESPIRATORY MONITORING

Thoracic & abdominal volume measurement on freely moving large animals

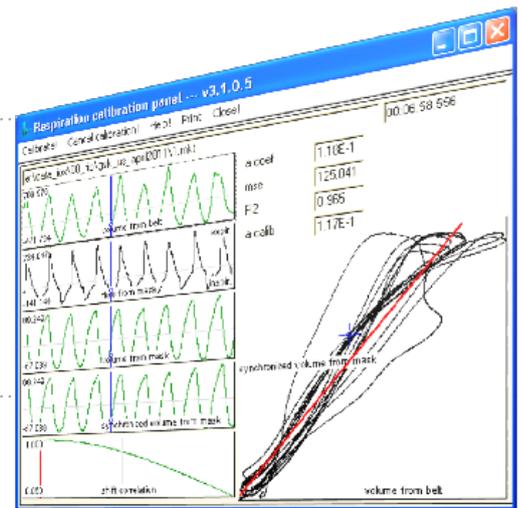
KEY FEATURES

- » For large animals (dogs, primates, horses, pigs)
- » Monitors respiration based on inductive plethysmography
- » Thorax & abdomen volumes are processed to derive pulmonary parameters
- » Can be used for bronchoconstriction studies, by comparing the thoracic and abdominal signals
- » Belts connect to emkaPACK4G transmitter
- » Seamless absolute calibration with mask



DATA ACQUISITION & ANALYSIS

- » Acquisition with iox software
- » Possible synchronized video recording
- » Analysis and review with ecgAUTO software

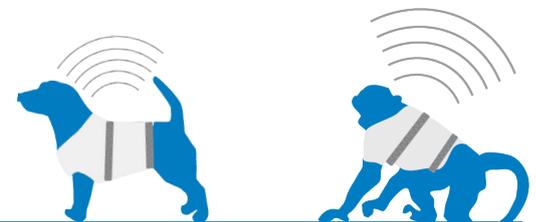


Calibration in ecgAUTO

MEASURED PARAMETERS

The following parameters are produced by the dedicated analyzer in ecgAUTO software (RIP):

- » Duration of breath
- » Duration of inspiration/expiration
- » Breathing rate
- » Inspired/expired volume
- » Tidal and minute volume
- » Max flow during inspiration/expiration
- » Thorax-abdomen phase shift, as time or angle



SPECIFICATIONS

Functional autonomy (2AA batteries)	24 hrs
High cut-off frequency	62.5 Hz
Sampling frequency	100 Hz

In addition to respiration through thorax and abdominal inductance belts, emkaPACK4G also allows:

- » 9 lead **ECG**
- » **temperature**
- » posture & activity (3 axis + total acceleration)
- » **blood pressure** from oscillometric cuff (NIBP), easyTEL+ implant or vascular access port (VAP)