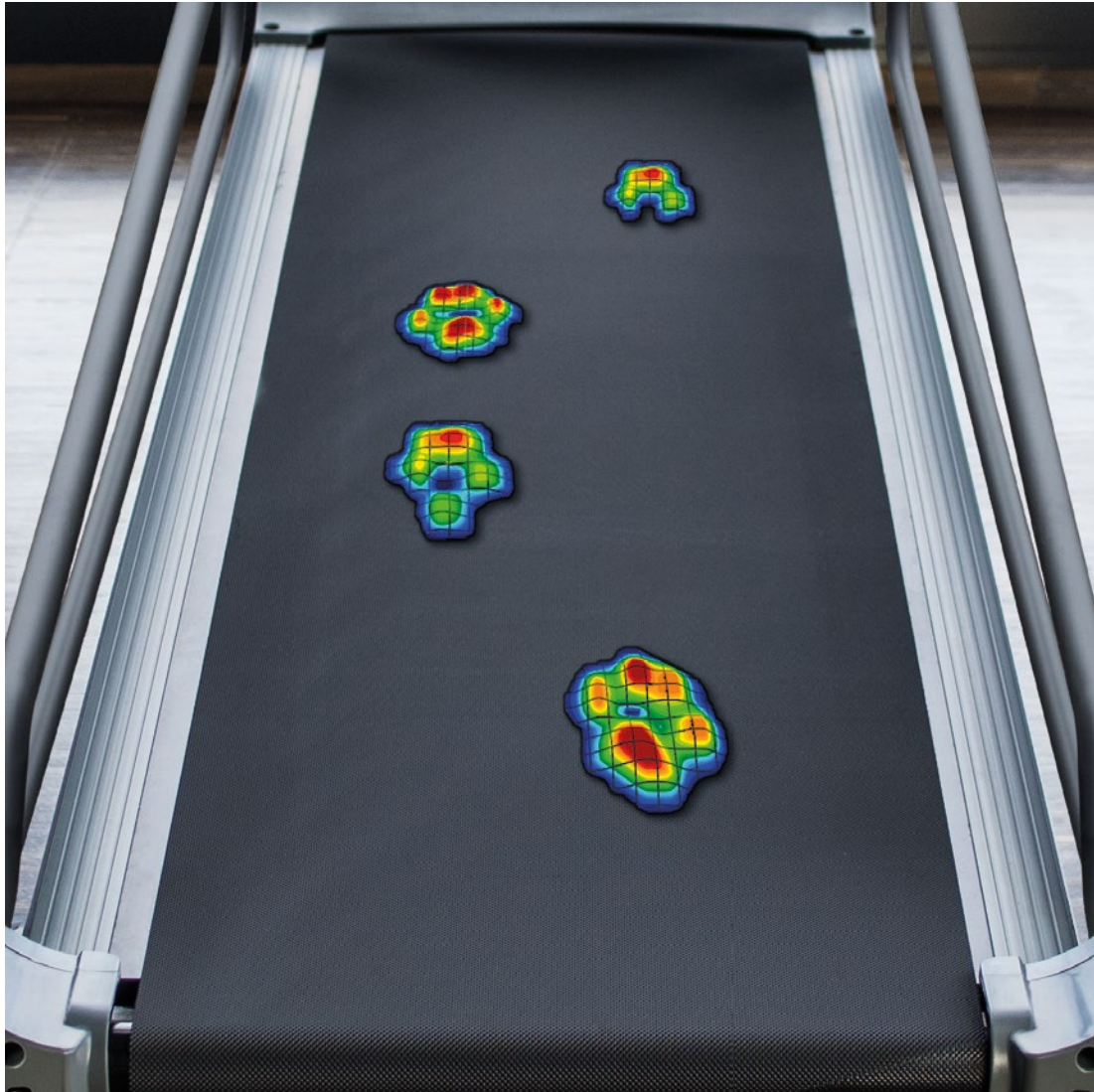


NEW

CanidGait – Gait analysis for dogs

Measuring system for diagnostics, therapy and rehabilitation



CANID
GAIT ANALYSIS

zebris

The instrumented zebris treadmill system CanidGait – simple analysis and documentation of gait anomalies among dogs



The system makes it possible to accurately analyse and document gait disorders among dogs as they are caused by changes or injuries to the musculoskeletal system. Changes in the motion behaviour with incipient lameness can be detected at an early stage. In the process, the system creates measuring parameters of motion sequences which are not easily ascertainable with the naked eye. The analysis of the functional state of the animals and their deficits enables a more targeted treatment in daily clinical practice.

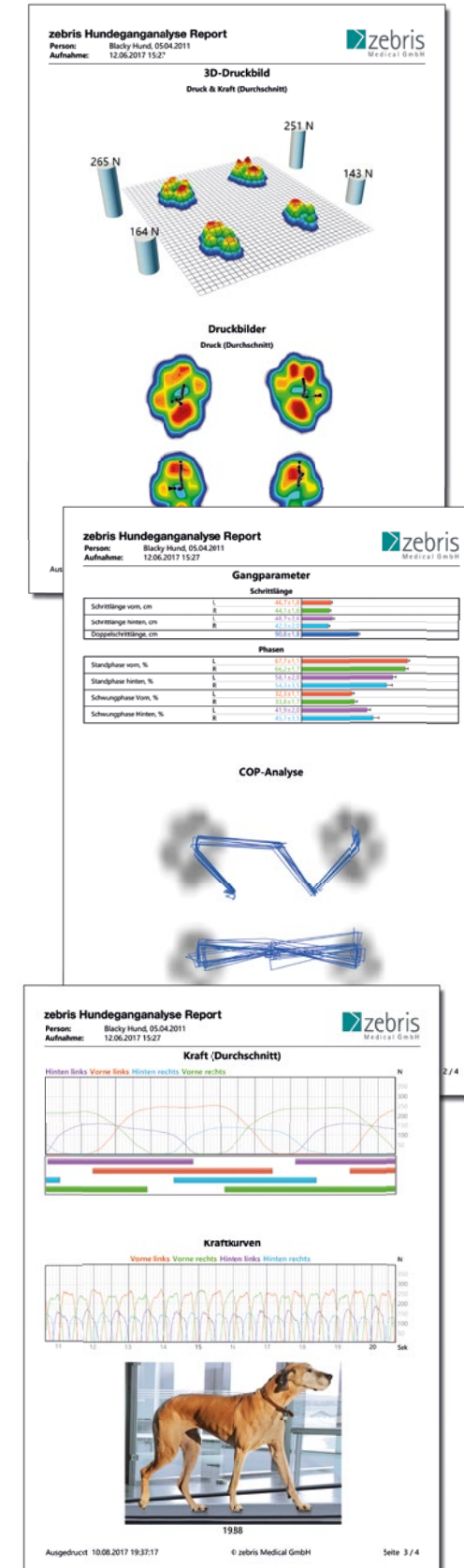
In addition to the contact forces of the four limbs, the evaluation report shows the detailed pressure distribution of each dog's paw together with the roll-off line.

Moreover, the stride lengths as well as the stance and swing phases are clearly presented as numerical values and as bar graphs. The course of the body's centre of gravity provides valuable indications with regard to gait symmetry.

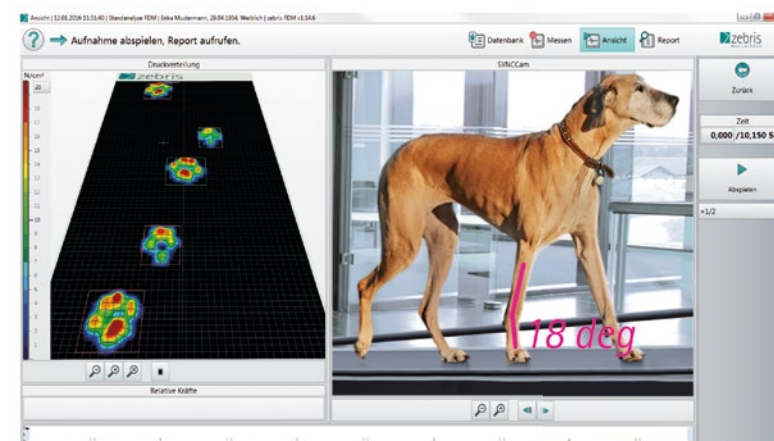
Clearly presented relative strengths and foot drop patterns are available for the various gaits. Individual images or image sequences are also displayed in the report.

Two evaluations in one report can be directly compared with each other for therapy monitoring.

The roll-off behaviour of the animals is presented in slow motion, whereby the joint angle of limbs can be measured directly on a display screen.



The zebris treadmill system CanidGait allows gait analysis among dogs that is fast and simple to implement. After implementation of gait analysis and an automatic or manual classification of limbs, the evaluation software provides scientifically sound, valid gait parameters. Due to the use of a calibrated and robust pressure sensor matrix under the tread surface area as well as a fully synchronised camera, no preparatory measures whatsoever on the animals are required.



System components



The system works with a commercially available personal computer under Windows 10. It is recommended to order the system with computer. The necessary specifications can be requested from the manufacturer.

The SYNCLightCam camera includes a lighting unit and is precisely synchronised with the treadmill's pressure measuring sensors. Several cameras can be operated in one system. A camera with a frame rate of 30 Hz is available for documentation. The adjustable shutter speed guarantees a high image definition. High-speed cameras with frame rates up to 100/200 Hz are available for implementation of more precise motional analyses. A specially configured computer with a higher computing power is required for this purpose.



The treadmill has a tread surface area of 190 x 42 cm and is suitable for dogs weighing up to 70 kg. The treadmill dimensions are 226 x 61 x 48 cm. The speed can be adjusted between 0.8 and 11 km/h in 0.1 km/h. The gradient is 0% or 7%. The sensor surface has a size of 170 x 34 cm and includes 8,000 high-precision, robust and individually calibrated, capacitive pressure sensors. The scanning rate is 100 measurements per second.



Measurement platforms with a length of up to 3 metres are available as an alternative to the treadmill. Up to two platforms are combinable with each other.

Distributed by::