



Measurably Better Care

The EQUINOSIS Q™ is a veterinary diagnostic system used to objectively measure a horse's movement.

Why

Asymmetry as small as 3mm can indicate a subtle lameness. Smaller than the average human eye can reliably see. Impossible to accurately measure without technology. The Equinosis Q™ quantifies asymmetry with sub-millimeter precision, allowing your veterinarian to measure what the eye attempts to perceive.

The Equinosis Q™ is a sophisticated medical diagnostic tool. Analytical output must be interpreted by a licensed veterinarian skilled in equine lameness evaluations and trained in the use of this equipment. The Q™ should only be used in conjunction with a complete veterinary examination to determine the clinical significance of measurements. Attempts to use or interpret Q™ results in clinical cases without such examination are discouraged.



EQUINOSIS
PRECISION LAMENESS MEASUREMENT


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THE
EQUINOSIS 
with
— LAMENESS LOCATOR® —

PRECISION LAMENESS
MEASUREMENT

PRECISE MEASUREMENTS THE HUMAN EYE CAN'T SEE

ACCURATE TO LESS THAN 1 MILLIMETER AT 100 METERS

Similar to a microscope or telescope, inertial sensors measure motion with superior resolution.

Ask Your DVM

- Evaluate mild or multiple limb lameness
- Quantify effectiveness of diagnostic nerve & joint blocks
- Gauge effectiveness of therapeutics
- Monitor rehabilitation progress
- Assess asymmetry in pre-purchase evaluations
- Measure rider effects on lameness

a **gold standard** for field-based measurement of lameness

Microelectronic sensors measure precisely how the horse moves with wireless, real-time data collection. Instrumentation is quick, easy and completely non-invasive.

The Technology

With over 20 years of gait analysis research, Dr. Kevin Keegan, equine surgeon and University of Missouri Lameness Program Director, in collaboration with university engineering professors, resolved that vertical motion of the torso is the most sensitive and accurate indicator of lameness. The Q™ uses accelerometers to measure motion of the head and pelvis, and a gyroscope on the leg to measure the timing during the stride. Normal gait movement is not restricted. Analysis results are reported in seconds.

The Results

Proprietary algorithms calculate movement asymmetries and analyze known lameness patterns. The Q™ objectively identifies and accurately measures amplitude and timing of lameness, often reducing time from evaluation to localization to treatment. Precise quantification of improvement from diagnostic blocks and therapeutics can be documented. Investigation of subtle, difficult to see lameness can be investigated earlier and proactively managed.

What Veterinarians are Saying

"Phenomenal! I find it especially useful for detecting differences (or not) with flexions and blocking - takes out the human nature element of wanting your blocks to work!"

- Dr. James Belknap, Ohio State University

"A valuable tool for both the evaluation of equine lameness and teaching of veterinary students. I am able to better interpret nerve blocks in horses with multi-limb lameness and assess response to treatment or surgery."

- Dr. John Marshall, University of Glasgow

"...the objective data obtained with the Lameness Locator® appears to provide a much more accurate assessment of gait (based on sometimes wide variation of our subjective scores) and provides reassurance that subjective data has not been unduly influenced by our bias."

- Dr. John Schumacher, Auburn University



THERE IS AN EQUINOSIS Q™ IN USE ON EVERY CONTINENT EXCEPT ANTARCTICA

Over 50 universities around the globe, including 80% of all North American veterinary teaching hospitals, are training the next generation of doctors with Equinosis® technology. For a complete list of users, visit equinosis.com.