

Parameter	Definition
Run duration (s)	Time of finishing an entire run.
Gait parameters	
Max intensity (a.u.)	Max pressure of paw during floor contacting.
Stride length	The distance between two consecutive travels in the same paw.
Swing duration	The duration in seconds of no contact of a paw with the glass plate.
Swing speed	The speed of paw during swing, swing speed = $\frac{\text{Stride length}}{\text{Swing}}$.
Stance	The time duration in seconds of paws during in contact with glass plate.
Cadence	Steps per second during one trial.
Postural parameters	
BOS	Distance between forelimbs or hindlimbs when at max contact.
Max area	The max area of paw during contact with ground, it is the print area when the braking phase turned into propulsion phase.
Print area	The total surface area of complete print during a stance.
Print length	The length of the print area.
Print width	The width of the complete paw print.
Coordination parameters	
Step Pattern	Step sequence patterns in animals, including alternate pattern (Aa: RF-RH-LF-LH; Ab: LF-RHRF-LH), cruciate pattern (Ca: RF-LF-RH-LH; Cb: LF-RF-LH-RH) and rotary pattern (Ra: RF-LF-LH-RH; Rb: LF-RF-RH-LH).
RI (%)	The percent of normal step patterns.