

## Human Movement Analysis Prices

(valid from 1 May 2017)

The complexity and duration of analyses at our unit vary significantly relative to the experimental protocol and required outcomes. Therefore, users incur costs for instrument use and for analytical services separately. Use of instruments is charged per hour ('charging for time'), whereas fixed prices are quoted for analytical services based on the deliverables requested ('charging for data'). This gives users the option of only collecting raw data and doing their own processing, and ensures fair pricing that reflects the true instrument usage and eliminates open-ended billing for analytics.

**NOTE: The prices below do not constitute a quotation. An official quotation is generated by the unit after consultation with staff after the needs of the user have been fully discussed and identified (experimental protocol, data deliverables, training requirements etc.)**

Charges for instrument usage consist of an hourly instrument fee (standard consumables included) and an operator fee (if requested or deemed necessary).

INDIVIDUAL INSTRUMENT RATES (Rand per hour)				
Description	Stellenbosch University	External RSA academic (Incl. VAT)	National industry (Incl. VAT)	International
Vicon Vantage (indoor and outdoor)	300	365.94	731.88	914.85
Vicon T-series (indoor)	300	365.94	731.88	914.85
Bertec treadmill (incline adjustable)	300	365.94	731.88	914.85
Brain Products ActiCAP (EEG system)	300	365.94	731.88	914.85
Noraxon MyoMotion (IMU system)	300	365.94	731.88	914.85
Noraxon MyoMuscle (EMG system)	300	365.94	731.88	914.85
Cortex MetaMax 3B (CPET system)	200	243.96	487.92	609.90
Bertec floor (3x force plates system)	200	243.96	487.92	609.90
Bertec mobile (2 x force plate system)	150	182.97	365.94	457.43
Noraxon MyoPressure (Zebris plate)	150	182.97	365.94	457.43
Tekscan Mat (pressure plate system)	150	182.97	365.94	457.43
Noraxon MyoVideo (2D video)	100	182.97	365.94	457.43
Specialist equipment operator	400	487.92	975.84	1219.80

Charges for analytics are calculated per sample, which is typically regarded as a recorded physical activity lasting a few seconds. Activities of longer duration may incur higher costs per sample for some analyses if there is an increase in the analytical work involved - if so, this will be decided and communicated beforehand in consultation with the unit staff.

**NOTE: Any development of new methods is charged separately to the implementation of methods for routine analysis. The cost of method development is determined on a case by case basis and is based on the development time required.**

ROUTINE ANALYSIS CHARGES (Rand per sample\record)				
Description of service	Stellenbosch University	External RSA academic (Incl. VAT)	National industry (Incl. VAT)	International
Vicon Nexus processing (marker labelling and cleaning)	10	12.20	24.40	30.50
Standard event detection (time marking)	10	12.20	24.40	30.50
Basic signal processing (smoothing, resampling)	10	12.20	24.40	30.50
Inverse kinematics (segment motion, joint angles)	10	12.20	24.40	30.50
Inverse dynamics (joint force, torque and power)	10	12.20	24.40	30.50
Standard feature extraction (analysing amplitude, time, frequency)	10	12.20	24.40	30.50