






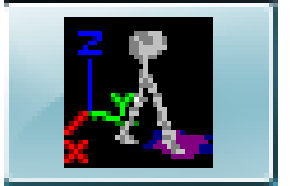




Biomechanics Equipment

Equipment	Quantity	Description	Photo
HD Digital Camcorder (Panasonic HDC-HS900)	6	HD Digital Camcorder for 2D Kinematic analysis.	
2D Qualisys (pro-reflex MCU240)	8	Infrared Retro-reflective camera up to 240fps. Can be used individually for 2D kinematic analysis.	
3D Qualisys (pro-reflex MCU240) – Wall-mounted 8 camera system.	1	Infrared Retro-reflective camera up to 240fps. Can be used together for 3D kinematic analysis.	
Qualisys Retro-reflective Markers - Various sizes (9mm, 19mm)		Lightweight spherical markers with crushed glass coating for reflection of IR light.	
Non-reflective Markers		Printed adhesive backed markers suitable for video analysis/2D kinematics.	
Floor Lamp	3	Woolworths 500W Halogen Flood Light 220-240V ~50Hz. Provides additional lighting for video analysis.	
Upright Lamp	5	Arrilite800, 800W Halogen Flood/Spot Light 120-240V 50/60Hz. Provides additional lighting for video analysis. Comes with Tripod Mounting.	
Extension cables		Various extension cables are available to provide electrical supply to Biomechanics devices – 2-50m length, 1-4 sockets.	

Qualisys Oqus 310+ camera	1	High speed video up to 1000 fps. Requires link to Lab PC for operation.	
Kistler Force Plate	1	Kistler Piezoelectric 3D Force Platform with external charge amplifier. Can be mounted in the biomechanics lab or sports hall as required for Kinetic analysis of ground reaction forces e.g. running, jumping and postural sway. Operated via Kistler, Bioware 7.0.	
Noraxon, EMG	1	8 lead wireless ElectroMyoGraphy system, with laptop and software for instant analysis and feedback.	
Kistler Accelerometer	1	3D accelerometer. Can be attached to limbs or implements for kinetic analysis via Bioware.	
Treadmill	1	Powerjog treadmill 0-20km/h	
Lab PC's – Dartfish Pro-suite	13	Dartfish Prosuite v5.5 video analysis software. Can be used for qualitative and quantitative analysis of movement. either for live capture x 1 or post processing x 13.	
Lab PC's – QTM	13	The latest version of Qualisys Track Manager software for 3D capture (x1) and analysis (x 13).	
Lab PC's – C-Motion Visual 3D	13	Visual3D – 3D modelling software for advanced kinematic analysis of human movement. x13	
Lab PC's – BioWare	13	Kistler Bioware v5.1.0.0 – For kinetic analysis of force plate or accelerometer data x 13 and data collection x 1.	

Plyometric boxes	5	Stackable 20cm wooden boxes.	
Cybex	1	Cybex Isokinetiv Dynamometer with integrated PC and HUMAC norm9000 software for dynamic analysis of joint torque and power.	