



get the measure



**CRANLEA**

**product  
range**



## **Cranlea and Company**

Cranlea are the premier suppliers of medical diagnostic equipment. Our many years of experience help us to provide our customers with what they need, when they need it and at the best price.

A wealth of information is available to help you make the right choice for your needs. We believe in service first and foremost, from advice to order information and prompt, no nonsense, delivery.

We hope you find our new brochure useful and informative. Any questions not answered in this document can be quickly and professionally supplied by trained operatives who are waiting for your call.

Alternatively you can visit our website or those of our partners (as indicated below) for more in depth detail on any product that you are particularly interested in.

We look forward to working with you.

### **Our partners**

Bod Pod	<a href="http://www.bodpod.com">www.bodpod.com</a>
Brower	<a href="http://www.browertiming.com">www.browertiming.com</a>
Cortex	<a href="http://www.cortex-medical.de">www.cortex-medical.de</a>
Hans Rudolph	<a href="http://www.rudolphkc.com">www.rudolphkc.com</a>
Hosand	<a href="http://www.hosand.it">www.hosand.it</a>
Lode	<a href="http://www.lode.nl">www.lode.nl</a>
Mega	<a href="http://www.megaemg.com">www.megaemg.com</a>
Woodway	<a href="http://www.woodway.com">www.woodway.com</a>

**Cranlea**                      **[www.cranlea.co.uk](http://www.cranlea.co.uk)**

to call us **0121 472 0361**



## How to find us

### Via M6

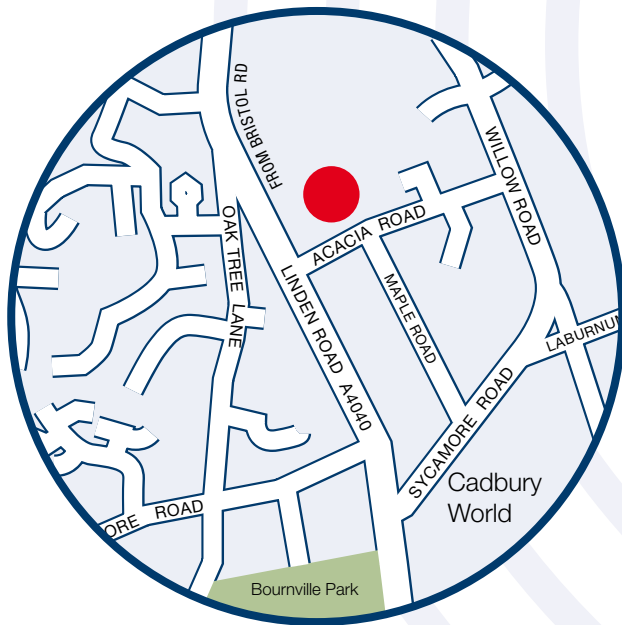
Junction 6  
 A38 South to Selly Oak  
 A4040 (Oak Tree Lane/Linden Road)  
 3rd left into Acacia Road  
 1st left into Sandpits

### Via M42

Junction 2  
 A441 to Cotteridge  
 A4040 past Cadbury World  
 2nd right into Acacia Road  
 1st left into Sandpits

### Via M5

Junction 4  
 A38 to Birmingham  
 Right at Bournville Police Station  
 1st left into Woodbrooke Road  
 Left at T-Junction onto A4040  
 1st right into Acacia Road  
 1st left into Sandpits



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Human Performance  
 Medical and Imaging  
 Rehabilitation

**11 > 16** **TREADMILLS**

Sports and Fitness  
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 Medical and Rehabilitation

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**Lode Angio  
(Arm) Ergometer**

“We have found the equipment to be robust, reliable and, though simple in its design, very well engineered.”

*Mr Paul Smith  
University of Greenwich*

## 1 Lode Angio - Arm Ergometry

Perfectly suited for arm ergometry applications in Sports Medicine, Physiotherapy and Rehabilitation.

Workload of 7-1000 watts allows range of applications and settings. Equipped with both analogue and digital interfaces, can also be supplied with a variety of accessories.

Dimensions	73 x 42 x 54cm
Weight	33kg
Workload	Hyperbolic 7-750 watts
Peakload	1000 watts
Rpm independent	30 - 150 rpm
Accuracy	< 3%

**Order code** LOD-917901

### Options

#### Programmable Control Unit

Programme up to 50 User-defined protocols.  
Possible parameters - ramp, step, linear, torque and heart rate.  
Additional display facing the operator.  
Infra-red port for wireless communication.

#### Blood Pressure Module

Accurate stress testing blood pressure monitor with Dimensional K-sound Analysis (DKA).

#### Further options

Adjustable cranks, Pedal shoes, Handgrips, Rpm set and Heart rate module.

#### Options Order codes

- LOD-928812** Programmable control unit
- LOD-928842** Programmable control unit with SpO<sub>2</sub> and heart rate
- LOD-928816** Blood pressure module
- LOD-917804** RPM set
- LOD-917810** Heart rate module
- LOD-917803** Pedal shoes
- LOD-917812** Handgrips
- LOD-906804** Adjustable cranks 80-170mm (set)
- LOD-906805** Zero watt start up system



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### System Options



Programmable control unit



Handgrips



RPM Counter

\*Standard Angio supplied without handgrips.

## 2 Lode Angio with Static Wall Mount

Supplied with a wall mounting bracket and handgrips as standard.

**Order code** LOD-917902

## 3 Lode Angio with Electrically Adjustable Wall Mount

Vertical movement range of 70cm with remote control adjustment. Supplied with handgrips and can be used in various applications. Subjects can be tested in wheelchairs or in an upright position.

**Order code** LOD-917903

## 4 Lode Angio with Automatic Stand

Free-standing mount, including handgrips, gives optimal flexibility and adjustability.

Electrically adjustable height for ease of use, over a range of 140cm - suitable for arm ergometry, leg ergometry and testing wheelchair subjects.

Optional reclining chair with electrically variable positioning and adjustable backrest offers a wide range of ergometry testing.

### Order codes

- LOD-917904** Lode Angio with automatic stand
- LOD-917813** Electrically adjustable chair for automatic stand



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5 **Lode MRI Ergometer**



Perform exercise tests within the magnet. Table fixed ergometer ensures minimal time between stress induction and imaging. Can be used for both cardiac examinations and spectroscopy. Supplied with pedal, circular or push/pull exercise movement for cardiac MR examinations. Supplied with up/down movement for spectroscopy. Can be used with GE, Philips, and Siemens MR scanners.

**Please contact sales team for order information**



7

6 **Lode Angio with Mechanical Cardiac Stress Table**

Suitable for ergometry in combination with the Angio. Mechanically adjustable for seated or supine patient positions. Perfect for examinations as the Angio folds away when not in use. Adjustable back support panel, shoulder support and handgrips. Adjusts up to 180 degrees to suit subject leg length.

Dimensions	207 x 92 x 76cm
Angle adjustment of back panel	0 – 33 degrees
Adjustability range of leg length	40cm

**Order code LOD-924900**



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7 **Lode Angio Echo Cardiac Stress Table**

Remote control adjustment for supine positioning with an additional 45 degrees rotation over the longitudinal axis. Removable back support section (near the heart) allows better view from the rear.

Adjustable back/shoulder supports and handgrips. Adjustable up to 180 degrees to suit subject leg length.

Dimensions	218 x 100 x 75cm
Patient Capacity	200kg
Angle adjustment of back panel	0 – 33 degrees
Height of platform at 0 degrees	60cm

**Order code LOD-927900**

8 **Lode Angio Nuclear Imaging Table**

Various back and leg support adjustments and the movement range of the Angio ergometer give optimal patient comfort. Design stability and construction make it comfortable to use for both the test subject and the operator. Can be easily combined with a variety of measuring methods; ECG recordings, ultrasound scanning and nuclear examinations. The back support of the table is permeable to X-rays.

Dimensions	204 x 60 x 85cm
Power consumption	200VA
Weight	105kg
Material	trespa (permeable to X-rays)

**Order code LOD-907900**



### System Options



Programmable control unit

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## 1 Lode Corival

Modern ergometer with an ergonomic, stable design and new operation methods for ease of use. Simplified keyboard with 3 button access to full menu functions. Adjustable display parameters with five pre-programmed languages to suit individual requirements. Extended load range of 7-1000 watt for a variety of applications.

Dimensions	115 x 60 x 114cm	
Weight	56kg	
Power consumption	130 VA	
Workload range	Hyperbolic	7-750 watt
	Linear	7-750 watt
	Increments	1 watt
	Peak Load	1000 watt
Workload accuracy	7 - 100 watt	± 3W
	100 - 500 watt	< 3%
	500 - 1000 watt	< 5%

### Order codes

<b>LOD-906900</b>	Lode Corival ergometer 1000 watt
<b>LOD-929900</b>	Lode Corival recumbant
<b>LOD-906905</b>	Lode Corival nuclear design

### Options Order codes

<b>LOD-928810</b>	Programmable control unit
<b>LOD-906805</b>	Zero watt start up system
<b>LOD-928840</b>	Programmable control unit with SpO <sub>2</sub> and heart rate
<b>LOD-928815</b>	Blood pressure module
<b>LOD-928824</b>	Heart rate option
<b>LOD-906804</b>	Adjustable cranks 80 - 170mm (set)
<b>LOD-906806</b>	Shortened saddle shaft
<b>LOD-906808</b>	Pedal strap extension
<b>LOD-ERGO003</b>	Fold away demonstrator Corival





## 2 Lode Excalibur Sport

The newly designed Excalibur Sport ergometer meets the latest requirements of modern sports medicine and research. Since athletes are becoming more powerful and testing now more advanced than ever, this ergometer has been developed for extreme workloads up to 2500 watt.

### Workload control

The peak load of 1500 - 2500 watt can be maintained for a maximum of 6 minutes.

The standard external control unit allows the workload to be controlled in various modes -

- Isokinetic (fixed rpm)
- Hyperbolic (rpm independent)
- Linear (rpm dependent)
- Torque (fixed torque)
- Heart rate (fixed heart rate - optional)

### Adjustability

Versatile positioning of the test subject with increased adjustability of the handlebar and saddle -

- Handlebar can be adjusted both horizontally and vertically
- Saddle has horizontal, vertical and angle adjustment

The height of both the handlebar and saddle can be positioned by Lode's unique one-touch adjustment handle.

In addition, it is now possible to read out the most important parameters of the seating position of the test subject on the display of the control unit.

**Order code**    **LOD-925900**

## Lode Excalibur Sport Options

The Excalibur Sport can be extended in a variety of ways.

### Options

- LOD-928811** Programmable control unit
- LOD-928841** Programmable control unit with SpO<sub>2</sub> and heart rate
- LOD-925805** Zero watt start up system
- LOD-928815** Blood pressure module
- LOD-928826** Heart rate option
- LOD-925804** Paediatric cranks - easily adjustable range 80 -170mm, increments of 10mm steps
- LOD-401068** Paediatric saddle
- LOD-925806** Sports cranks - step-less adjustment, range 135-185mm, indication click at each 2.5mm step
- LOD-925801** Comfort set standard handlebar and saddle
- LOD-911817** Wingate software module with correction for moment of inertia  
Performs Wingate sprint test in the constant torque mode

## 1 Lode Pedal Force Measurement

The Excalibur Sport Pedal Force Measurement system allows continuous registration of forces exerted on left and right crank with specific reports and analysis.

Numeric data such as peak values, averages, absolute maximum, angle, total efficiency, rpm and left/right ratio are registered and saved.

Export to statistical programmes with the optional LEM Export Module.

Protocols can be programmed based on time intervals (maximum 60 minutes) enabling continuous registration of pedal force.

LEM software is included as standard.

**Order code LOD-925909**

## Lode Ergometry Manager (LEM)

Windows based software package for controlling Lode ergometers and monitoring test subject parameters.

Software enables operator to create protocols, control ergometers, visualise, print, save and analyse ergometry data.

Programme also provides a patient database.

Test and train in various rehabilitation settings, sports medicine, physiotherapy and research environments.

### Order codes

- LOD-928902** LEM PC bike control
- LOD-928903** LEM Multi bike control  
(1 PC controls up to 16 ergometers)
- LOD-928908** LEM Export module
- LOD-928909** LEM Astrand test module

## 2 Lode Portable Calibrator

Portable unit, easy to install and convenient to work with.

Supplied with two versatile crank adapters and height adjustment blocks to allow connection to a variety of ergometers.

PC controlled via an RS232 connection.

Data can be stored and printed from the PC.

**Order code LOD-919900**

## Management & Measurement





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Additional weights can be purchased separately.

## 1 Monark Pendulum 828E Ergometer

The most widely used ergometer for fitness tests and workouts. Easy to calibrate and just as easy to check when in use. Complete with chest belt and PC software.

Weight 52kg  
Length 1120mm  
Height 890-1130mm (at handlebar) 890-1120mm (at seat)  
Width 530mm (handlebar) 460mm (feet)

**Order code MON-828E**

## 2 Monark Ergomedic 839E Ergometer

Precise user-friendly ergometer providing a constant workload independent of pedal speed. Complete with chest belt, PC software and calibration weight. Features complete reports for fitness tests, pulse training and work tests via ECG or PC.

Weight 56kg  
Length 1150mm  
Height 760-1135mm (at handlebar) 800-1120mm (at seat)  
Width 530mm (handlebar) 460mm (feet)

**Order code MON-839E**

## 3 Monark Weight Ergometer 874E

Reliable, easy to use for bike for all types of fitness testing. The patented weight basket system requires no calibration as the precision weights ensure that the workload is correct. Complete with chest belt and PC Software.

Weight 57kg  
Length 1120mm  
Height 890-1130mm (at handlebar) 800-1120mm (at seat)  
Width 530mm (handlebar) 460mm (feet)  
Supplied with a set of weights 4 x 1kg, 1 x 0.5kg, 4 x 0.1kg

**Order code MON-874E**

## 4 Monark Sprint Ergometer 884E

A specially adapted ergometer for effective training with direct feedback, designed to optimise interval training. Complete with chest belt and PC software. Can also be used as a standard weight ergometer.

Weight 63kg  
Length 1120mm  
Height 890-1130mm (at handlebar) 800-1120mm (at seat)  
Width 530mm (handlebar) 670mm (feet)  
Supplied with a set of weights 8 x 1kg, 1 x 0.5kg, 4 x 0.1kg

**Order code MON-884E**

## 5 Monark Peak Ergometer 894E

An ergometer designed for anaerobic testing, that also works as a traditional weight ergometer. Features an RPM controlled release of weight basket and test duration of up to 99 minutes. Complete with chest belt and PC software.

Weight 65kg  
Length 1120mm  
Height 890-1130mm (at handlebar) 800-1120mm (at seat)  
Width 530mm (handlebar) 670mm (feet)  
Supplied with a set of weights 8 x 1kg, 1 x 0.5kg, 4 x 0.1kg

**Order code MON-894E**

# MONARK

## 1 Monark Sparr Rehab 808/809

Intended for purposes such as stimulating movement, the rehab features a smooth pedalling action at light loads as well as a low frame to provide easy access.

Weight 32kg  
Length 890mm  
Height 1020mm (at handlebar) 670-1000mm (at seat)  
Width 530mm (handlebar)

### Order codes

**MON-808** - fixed wheel

**MON-809** - free wheel

## 2 Monark Cardio Comfort 837E Ergometer

Based on Monark's classic concept, combining quality, comfort and function.

Easy access, with an attractive design provides a recumbent for both health care and rehabilitation.

Weight 70kg  
Length 1700-2000mm (varies with adjustable front unit)  
Height 800mm (at front) 800mm (at seat)  
Width 530mm (handlebar)

**Order code MON-837E**

## 3 Monark Compact Rehab 871E

A small, reliable arm and leg trainer which is easy to use offering smooth operation for both warm up and exercise testing. The trainer is easily portable and ideal for use in rehabilitation.

Weight 25kg  
Length 600mm  
Height 530mm  
Width 180mm (front feet) 450mm (rear feet)

**Order code MON-871E**

## 4 Monark Rehab Trainer 881E

A versatile arm and leg ergometer with the potential to suit most exercise applications.

The crank arms are individually adjustable and the unit can be calibrated to offer precise work loads.

Weight 22kg  
Length 540mm  
Height 550mm  
Width 470mm

**Order code MON-881E**

## 5 Monark Cardiac Rehab 891E

A new arm ergometer that satisfies the requirements for upper body fitness and endurance testing. Monark's renowned weight basket system has been specially adapted for use in arm ergometry. Ideal for rehabilitation, exercise testing and use with disabled athletes.

Weight 60kg  
Length 1500mm  
Height 1660mm  
Width 700mm  
Supplied with a set of weights 8 x 1kg, 1 x 0.5kg, 4 x 0.1kg

**Order code MON-891E**



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# OTHER ERGOMETERS

call today **0121 472 0361**  
or e-mail **info@cranlea.co.uk**



## 1 Seca CT100 Electronic Ergometer

This cycle ergometer derives all the important information from exertion tests without being affected by a subject's speed fluctuations. Starting performance and exertion at time levels can be programmed on an individual basis and can be changed at any time during the exercise test. The Cardiotest 100 can be directly connected to standard ECG equipment.

**Order code CT 100**

## 2 Cyclus 2

This high performance ergometer combines the most modern technologies with a wide range of individual applications providing a perfect combination for training and fitness analysis, using the riders own bike. Conconi test, OBLA test, maximum cadence test, maximum strength test, CPI test and free programmable test options, freely determinable recovery heart rate period, adjustable mounting, special flexible suspension allows natural degree of side-to-side movement when pedalling, use of own gear system, rigid motion for track cycles, flywheel for realistic stimulation of movement of inertia, maximum load up to 3,000 watts and precise torques.

**Order code CYCLUS 2**

## 3 K1 Ergo Kayaking Ergometer

An air-resisted flywheel driven by a cord mechanism extending from the extremities of the paddle closely simulates the paddling action and the effort required to overcome water resistance. With each stroke of the paddle the cord transfers the work done by an athlete to a rotational force on the flywheel.

### Order codes

**K1ERGOT** Training Kayak Ergometer with on-board work monitor

**K1ERGOL** Laboratory Kayak Ergometer with sensors & interface

**K1ERGOLL** Laboratory Kayak Ergometer with load cell

## 4 Concept 2 Rowing Ergometer

Designed to offer you high quality exercise for the rest of your life. Rowing exercises and strengthens both upper and lower body with a motion that is smooth, rhythmic and impact-free. Its' wide range of motion promotes flexibility in your muscles and joints. The Concept 2 Indoor Rower is an extremely versatile machine that can be used by people of all ages and fitness levels.

### Order codes

**CONCEPT 2** Rowing Ergometer

**CONCEPT HR** Heart rate receiver (excludes transmitter)

**CONCEPT SLIDE** For realistic rowing action



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# LABORATORY INSTALLATION



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Cranlea are able to offer an expert service assisting all customers in fully equipping their laboratories. From Blood Lactate to Treadmills, Body Composition to Ergometry, Cranlea offer a complete range of products to suit all applications and can assist you in the design and set-up of your laboratories.

## 1 Exeter University

Latest installations include - Multiple Cortex metabolic CPX systems  
Excalibur Sport ergometers  
Body Composition analysers  
Woodway treadmills

## 3 Thames Valley University

Full Lab Set-Up including - Cortex metabolic CPX systems  
Woodway ELG treadmills  
BodPod  
Multiple Douglas Bag stations

## 2 Leeds Metropolitan University

Latest installations include - Woodway ELG treadmills  
Activity monitors  
Speedtrap timing systems  
Multiple Cortex metabolic CPX systems

## 4 Newman College

Latest installations include - Mega EMG system  
Mega 3D Motion analysis system  
BodPod  
Cortex metabolic CPX systems



“Our Woodway treadmills and the service provided with them have not failed us in any way under both research and teaching loads.”

*Dr. Samantha Fawkner  
Lecturer in Sport  
and Exercise Science  
Heriot-Watt University  
Edinburgh*

**1 Lode Valiant Treadmill**

Smooth acceleration and continuously adjustable in a range of 0.5 - 20 km/h and can be controlled by external equipment. Elevation of 0-25%, perfect for use in cardiology, pulmonary function, physiotherapy and sports medicine.

Running surface 150 x 50cm

**Order code LOD-932900**



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**2 Lode Valiant Rehab Treadmill**

Smooth acceleration and continuously adjustable in a range of 0.1 - 12 km/h. Can be used with the adjustable side handrails which are adjustable in height (791 - 954mm) and width (440 - 975mm). These features together with the optional heart rate controlled protocols make this treadmill perfectly suitable for rehabilitation purposes. Optional rear entrance plate provides easy access.

Running surface 150 x 50cm

**Order code LOD-932901**



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**Options Order codes**

- LOD-932801** Heart rate
- LOD-932802** Rear elevation 10% mechanical
- LOD-932803** Rear elevation 10% electrical
- LOD-932804** Extra emergency stop
- LOD-932805** Entrance plate for easy step up
- LOD-932806** Anti slip strips
- LOD-932810** Fixed side handrails
- LOD-932811** Adjustable side handrails
- LOD-932812** Pediatric front handrails
- LOD-932813** Adjustable pediatric side handrails
- LOD-932814** Arm support
- LOD-932821** Safety belt and fall stop
- LOD-932822** Zero gravity system

**3 Lode Valiant Plus**

A newly designed treadmill offering the same high standards as the standard Valiant together with extra speed and a larger running surface.

Running surface 170 x 60cm

Speed 0 - 25 km/h

Elevation 0 - 25%

*NOT ILLUSTRATED*

**Order code LOD-932902**

**4 Lode Valiant Special**

Lode have the capability to make specialist treadmills to suit any requirement.

Running surfaces can be made to your specifications up to 2.4m wide.

**Please contact our sales team to discuss your specific requirements.**



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The complete range of Woodway treadmills can be used by subjects up to 225kg (running) and up to 360kg (walking).

All Woodway treadmills come with a five year guarantee on the drive, motor and belt. They also offer a three year warranty on all other components.

## 1 Woodway Wide Path Treadmill

Running surface	117 x 55cm
Speed	0 - 17.5 km/h, zero start 0.1 km/h resolution
Elevation	0 - 15%
User capacity	225kg (running) 360kg (walking 6 km/h max)

Contact heart rate  
Polar monitor circuitry - heart rate display  
Dynamic / Manual (non-motorised) mode

### Options

Personal Trainer Controller / Polar monitor chest strap  
RS232 serial interface with MedPro software  
Higher speed range 0 - 24 km/h  
Reverse 0 - 8 km/h

### Order code

**Wide Path** Treadmill with 117 x 55cm track

## 2 Woodway Mercury Treadmill

Running surface	157 x 43cm
Speed	0 - 17.5 km/h, zero start 0.1 km/h resolution
Elevation	0 - 15%
User capacity	225kg (running) 360kg (walking 6 km/h max)

Contact heart rate  
Dynamic / Manual (non-motorised) mode

### Options

Personal Trainer Controller / Polar monitor chest strap  
Elevation options 0 - 25% **or** -3 - 22%  
Higher speed ranges 0 - 24 km/h, 0 - 26.5 km/h,  
0 - 29 km/h  
Reverse 0 - 8 km/h

RS232 serial interface with MedPro software

### Order code

**Mercury** Treadmill with 157 x 43cm track

## 3 Woodway Desmo Treadmill

Running surface	157 x 55cm
Speed	0 - 20 km/h, zero start 0.1 km/h resolution
Elevation	0 - 15%
User capacity	225kg (running) 360kg (walking 6 km/h max)

Contact heart rate  
Polar monitor circuitry - heart rate display  
Dynamic / Manual (non-motorised) mode  
Unitised steel frame - integrated silver powder coated side handrails

### Options

Personal Trainer Controller / Polar monitor chest strap  
Elevation options 0 - 25% **or** -3 - 22%  
RS232 serial interface with MedPro software  
Higher speed ranges 0 - 24 km/h, 0 - 26.5 km/h,  
0 - 29 km/h  
Reverse 0 - 8 km/h

All black unit  
LCD TV (13" or 15" does NOT require separate power source)

### Order code

**Desmo** Treadmill with 157 x 55cm track

### 1 Woodway ProLift 360

Unique pneumatic system provides unweighting up to 160kg, with full 360° rotation for the user.  
Proven therapeutic and sports conditioning application which combines the Pneumex lift system with the versatility of the Woodway treadmill.

Maximum height	2.9m
Minimum height	2.4m
Weight capacity	Up to 160kg
Pneumex harness sizes	x-small 18" - 22" small 22" - 32" medium 32" - 44" large 44" - 57" x-large 57" - 67"

#### Order code

**ProLift 360**

Unweighting system

### 2 Woodway Elite Treadmill

Contact heart rate.  
Manual (non-motorised) mode.  
Elite Controller with 14" full colour LCD touch-screen display.  
Heart Rate controlled workouts (incline only, speed only or speed and incline combination).  
Fourteen pre-programmed workout protocols.

Running surface	157 x 55cm
Speed	0 - 20 km/h, zero start, 0.1 km/h resolution
Elevation	0 - 15%
User Capacity	225kg
Belt Reverse	0 - 8 km/h

#### Options

Higher speed range	0 - 24 km/h
Higher elevation	0 - 25%
Polar heart rate chest strap	
Intra-treadmill networking	
Coaches station software	

#### Order code

**Elite**

Treadmill with 157 x 55cm track

### 3 Woodway Desmo Pro Treadmill

Contact heart rate.  
Manual (non-motorised) mode.  
Side handrail control of speed, elevation and stop.  
Standard Controller which includes - multiple readout displaying time, speed, elevation, distance, pace, calories and METs.  
Emergency stop magnet and safety lanyard.

Running surface	Pro 157 x 70cm Pro XL 188 x 70cm
Speed	0 - 26 km/h, zero start, 0.1 km/h resolution
Elevation	0 - 25%
User Capacity	225kg
Belt Reverse	0 - 8 km/h

#### Options

Personal Trainer Controller	
Polar monitor chest strap	
Higher speed range	0 - 32 km/h
RS232 serial Interface with software	
Single side handrail	

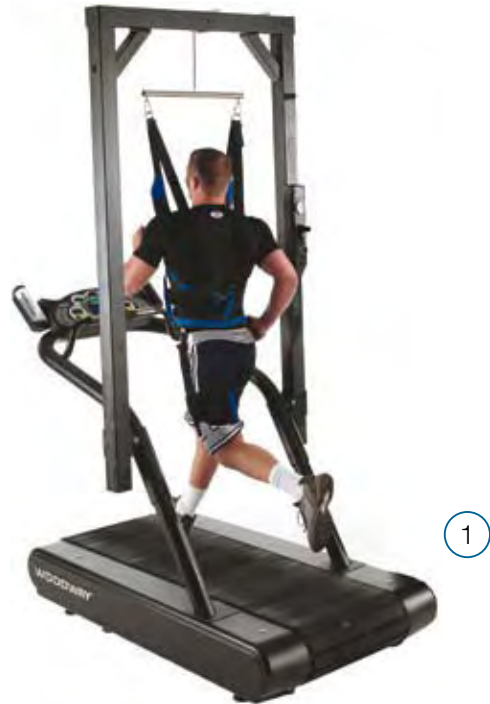
#### Order codes

**Desmo Pro**

**Desmo Pro XL**

Treadmill with 157 x 70cm track

Treadmill with 188 x 70cm track





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#### 4 Woodway Force Treadmill

Athletic speed and power training system. Virtual sprinting, variable resistance interval training, while measuring speed, time, distance, heart rate and work measured in watts. Combines Woodway's legendary shock absorption with a tether and variable resistance brake creating a functional and sport specific trainer.

Manual and programmable versions available.

"Force 2.0" With horizontal force measurement.

"Force 3.0" Top of the range with load cell measurement of both horizontal and vertical forces.

#### Order codes

**Force 1.0** Treadmill with programmable controller

**Force 2.0** Treadmill with horizontal force measurement

**Force 3.0** Treadmill with horizontal and vertical force measurement



5

#### 5 Woodway ELG Treadmill

The ELG range is the preferred choice for top sports research laboratories worldwide.

Features -

100% accuracy Even under extreme loads the non-slip, tooth belt driven surface guarantees exact measurements.

No overheating The flexible surface runs on 200 ball bearings. Model options with track widths ranging from 55 - 90cm.

All models have infinite speed adjustment up to 40 km/h with elevation of 30% on the ELG and 25% on the XELG.

All models supplied with in-built safety measures - emergency cut off switches and overhead stop system.

#### Options

Downhill inclination 30% maximum

Frame for mounting overhead stop system

Wheel-chair clamp

Pit-installation

#### Order codes

**ELG 55** Treadmill with 201 x 55cm track

**ELG 70** Treadmill with 201 x 70cm track

**ELG 90** Treadmill with 201 x 90cm track

**XELG 70** Treadmill with 252 x 70cm track

**XELG 90** Treadmill with 252 x 90cm track

**All ELG treadmills require 3-phase electrical supply. For further information please contact our service team.**

#### 6 Woodway Blade

Specialised treadmill designed to increase and maintain speed, correct skating mechanics, improve movements, stride length and stride frequency.

May be used for many other applications

Surface dimensions 2.1m x 2.4m (length x width)

Speed range -8 to 24 km/h

Elevation -5 to 35%

Handrail diameter 50mm

Overall size 2.44 x 2.92m

Approximate weight 1365kg

NOT ILLUSTRATED

**Order code** **Blade** Training Treadmill

### Woodway Environmental

The testing of athletes in extreme conditions using environmental chambers is now widespread and equipment must be designed to withstand the dramatic changes in temperature and humidity. Woodway offer both the PPS and ELG range of treadmills specifically designed for use within this field. In this harsh environment Woodway treadmills offer the solution to all your testing needs.

**For further details please contact our sales team on 0121 472 0361.**



1

• Treadmill shown with optional parallel bar handrails



2



3

### 1 Woodway PPS Treadmill

The basic PPS facilitates virtually every application in the area of motor activation and performance diagnostics. Perfect for use in rehabilitation, physical therapy, orthopaedics, and sports medicine. PPS55 models feature 20 km/h speed and 20% elevation.

#### Options

Higher speed and elevation (25km/h / 25%)  
 Parallel bar handrails with spring technology and simple button control to adjust the side rail height  
 (Option available for all PPS and LOKO models)  
 Touch-screen programmable controller  
 Dual elevation system for downhill protocols  
 Arm supports or combined arm and under arm supports

#### Order code

**PPS 43Med** Treadmill with 157 x 43cm track  
**PPS 55Med** Treadmill with 157 x 55cm track  
**PPS 70Med** Treadmill with 157 x 70cm track

### 2 Woodway LOKO System

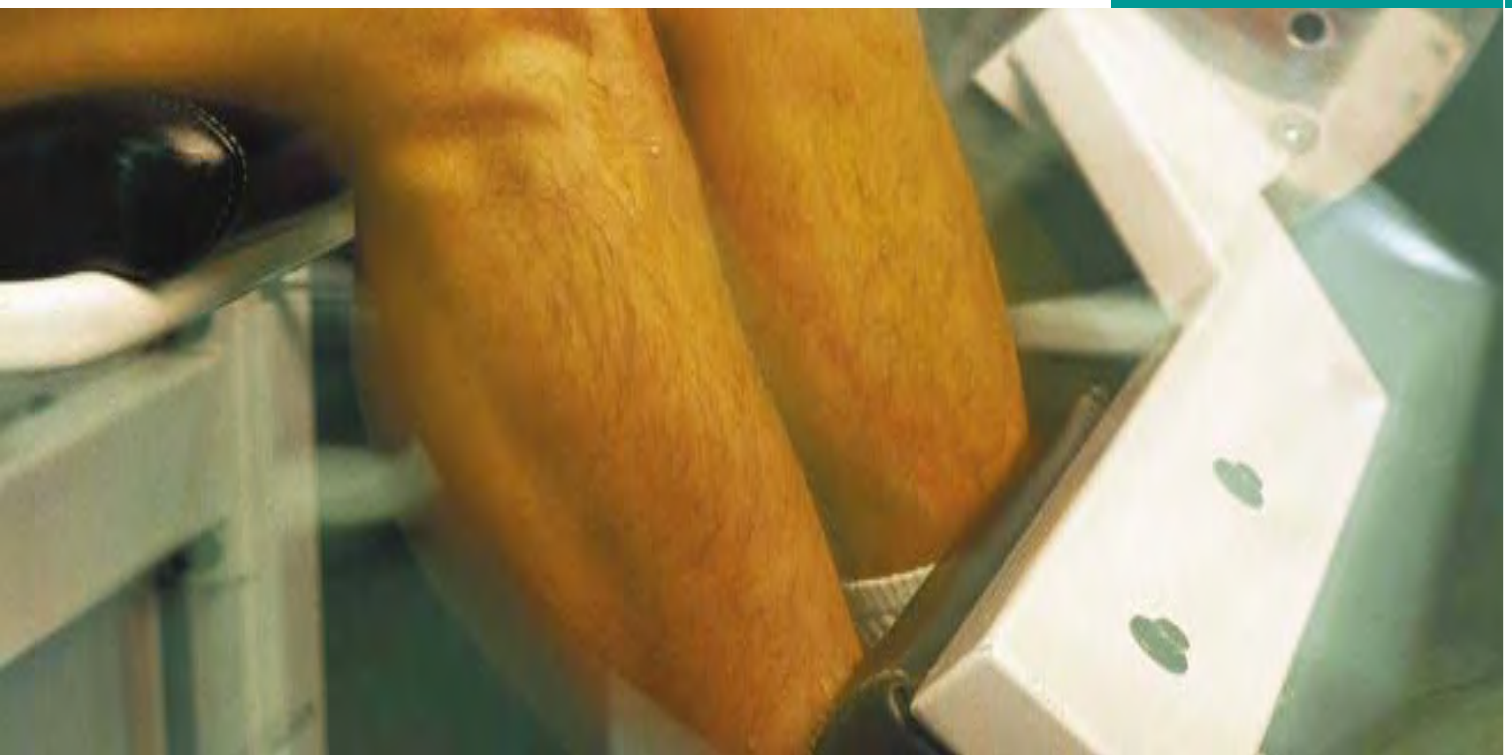
Base model for effective Locomotion Therapy on a treadmill. An "open system" that continually develops and integrates the latest advances in research and therapeutic practice. Can integrate other external systems such as "functional electrical stimulation" and has even expanded the system for automatic therapy.

#### Order codes

**LOKO S55** Therapy system with 157 x 55cm track  
**LOKO S70** Therapy system with 157 x 70cm track

### 3 Woodway HELP System

The new LokoHelp system is specifically designed for rehabilitation purposes. The system allows controlled training intervals, more frequent treatments and therefore accelerated therapy results. The patented WOODWAY slat-belt technology guarantees a non-slip drive mechanism and an optimal shock-absorbing running surface that absorbs 90% of the shock at the point of impact and allows for less stress on the ligaments, tendons, and joints.



Cardiovascular and Resistance Training can transform your physical appearance and improve both your health and sporting performances.

# MONARK

## 1 Monark 827E Cardio Care

Specifically designed for intensive use in institutions and gymnasia.

Electronically measured rpm

Measures heart rate, exercise time, target speed and distance in km/miles per hour.

**Order code**      **MON-827E**

## 2 Monark 915E Ergo Bike

Rugged, functional and compact the 915E accurately measures heart rate, speed, distance, time and energy consumed.

Makes personal fitness training or home monitoring of prescribed cardiovascular fitness programs simple and enjoyable.

Includes a meter showing both resistance and calorie

consumption at 60 and 70 pedal revolutions per minute and conversion table for reading watts at other rpm's.

Electronic readouts of time, heart rate, speed, distance and rpm.

**Order code**      **MON-915E**

## 3 Monark 736 Energy Bike

Energy Cycling from Monark.

Ride with your team of 10 - 20 people.

Low impact, intense cardiovascular workout guaranteed to burn calories.

Unique braking system - smooth for gradual resistance changes and can also be used to stop immediately for the rider's convenience and safety.

**Order code**      **MON-736**



## 1 Concept 2 Dyno

Air resistance principle of the Indoor Rower applied to strength training. Three core exercises - Leg Press, Bench Press and Bench Pull. The power produced by a muscle isn't constant throughout its contraction, traditional weight training is limited to the maximum weight that can be lifted at the weakest point in the muscle contraction. Dynamic Strength Training enables muscles to be fully challenged during the lift, as resistance is created in dynamic response to effort. Can be used for strength training, strength testing, circuit training or rehabilitation.

**Order code**      **CONCEPT DYN0**



1

# DIAMONDBACK

## 2 Sapilo Work Bike

Built to withstand very heavy use, it requires no electrical supply and is designed to deliver a sophisticated range of feedback. Simple manual start, time (duration of cycle), distance of cycle, heart rate training, variable magnetic resistance, neoprene handgrips, easy adjust seat, 30kg flywheel with safety guard, silent ride, low maintenance.

**Order code**      **SAPILO WB**



2

## 3 Diamondback Elliptical Trainers

### 850Er

Has unique features like hinged comfort foot pads and grips, plus the longest stride of any competitively priced model. Featuring the same mechanics, footpath, Q-factor, and stride length of the 1180Er, the 850Er offers terrific value.

Includes - 5 LED data displays, heart rate control programme, and the classic programs (hill profile, random) plus custom and target heart rate control.

### 950Er

Using the same frame and mechanics as the 1250Er - the 950Er has the programming and patented linkage to give you your best workout yet.

The console features hands free heart rate receiver, 5 data window displays and 16 levels of resistance.

Ultra large cushioned footpads and ergonomically positioned hand rails (with custom padded grips) give the 950Er easy to feel touch points.

### 1180Er

Takes every key mechanical element in a rear drive elliptical and refines it, mechanically and with programme features. Hinged footplates enhance Diamondback's patented footpath for comfort and a smoother, easier motion.

The console packs every conceivable notion giving you limitless options to vary your workout.

### 1250Er

Adjustable elevation emulates stepping or uphill jogging - giving you virtually 2 machines in one.

Main functions include - 20 levels of intensity along with 15 different preset programmes along with unlimited variables in random mode.

### Order codes

**DB-850Er** Light use      **DB-950Er** Medium use  
**DB-1180Er** Heavy use      **DB-1250Er** Heavy use



3

# DIAMONDBACK

## 1 Diamondback Recumbent Bike

### 800Rb

The 800Rb has an upgraded console which includes 16 levels of resistance, with 2 interactive heart rate programmes. The oversized console features super bright LED indicators, upgraded data window readouts, plus on the fly program and resistance adjustment.

### 1150Rb

The 1150Rb features a complete redesign of the console with alpha-numeric display, scrolling read out, plus 4 window data presentation.

More key features: Improved control over workout intensity and heart rate control with our Polar compatible heart rate chest strap included, plus 8 pre-set and 'save' functions! Combined with all our other advanced features the 1150Rb will help you reach your fitness goals effectively and comfortably.

#### Order codes

**DB-800Rb** light/medium use

**DB-1150Rb** heavy use



## 2 Diamondback Stepper

### 600ES

Constant heart rate quick start programme for faster, more effective workouts, an advanced electronically controlled braking system with 16 levels of resistance intensity and a bright, easy-to-read console.

Intended for light/medium institutional use.

### 1100ES

From the Hand-Pulse and Chest Transmitter heart rate control system, which precisely monitors the heart rate zone to ensure safety ranges, to the METs programme which automatically adjusts the resistance to ensure control of metabolic rate, the range of features are astounding.

Intended for heavy institutional use.

#### Order codes

**DB-600ES** light/medium use

**DB-1100ES** heavy use



## 3 Diamondback Upright Cycle

### 800Ub

The 800Ub features an upgraded console which includes 16 levels of resistance, with 2 interactive heart rate programmes. The oversized console features super bright LED indicators, upgraded data window readouts, plus on the fly program and resistance adjustment.

### 1150Ub

The 1150Ub's improvements go far beyond look and feel. If you demand light institutional quality equipment for your home gym, nothing will beat the merits found with the 1150Ub.

The 1150Ub features a complete redesign of the console with alpha-numeric display, scrolling read out, plus 4 window data presentation.

1150Ub feature upgrades - Improved control over workout intensity and HR control with our Polar heart rate chest strap included, plus 8 pre-set and 'save' functions.

#### Order codes

**DB-800Ub** light/medium use

**DB-1150Ub** heavy use





**Free weights** A range of individual items or complete packages including custom built storage rack. Available in cast, chrome or rubber coated with engraved end weight and knurled grip all supplied with storage rack.

#### Order codes

**CR1** Dumbbells 1kg to 10kg **CR2** Dumbbells 2.5kg to 15kg (6 pairs) Barbells 5kg to 30kg (6 bars)

**CR4** Dumbbells 2.5kg to 25kg (10 pairs cast, rubber or chrome) **CR5** Barbells 5kg to 30kg (6 bars cast, rubber or chrome)

#### Benches & Units

Manufactured to withstand the toughest of workouts.

#### Order codes

- B00** Roman Chair
- B01** Flat Bench
- B02** Flat Bench with Catchers
- B03** Adjustable Incline Bench
- B04** Adjustable Incline Bench c/w catchers
- B05** Adjustable Incline/Decline Bench
- B06** Adjustable Incline/Decline with catchers
- B07** Olympic Bench with catchers
- B08** Olympic Flat Bench with catchers
- B09** Olympic Decline Bench with catchers
- B10** Abdominal Bench fixed angle
- B10/1** Abdominal Bench
- B11** Preacher Curl Bench
- B12** Olympic Training Bench
- B13** Hip Flexor with dipping handles
- B14** Twistaway
- B15** Hyperextension seat and leg (adjustable)
- B15/1** Back Extension
- B16** Olympic Walk in stands with safety rails
- B17** Hip flexor/Dipping/Chinning combination
- B17/1** Dipping/Chinning combination
- B18** Pair of Squat Stands heavy base
- B19/20** Abdominal Board with Ladder Rack
- B21** Abdominal Cradle
- B22** Adjustable Stool with Foot Rests
- B23** Seated/Standing Twistaway
- B24** Squat Cage (power rack)
- B25** Super Bench fully adjustable
- B26** Shoulder Press Bench 85° with Catchers
- B27** Dipping/Abdominal Board Combination

#### Single Station Free Standing Units Economy Range

Nylon or nylon coated wire cables, Cam transmission, Locking key weight selection, Spring plunger adjustments, Mounted exercise charts. Optional encased weight stacks.

#### Order codes

- R01** Seated Lat x 100kg
- R02** Seated Lat & Pulley Row x 120kg
- R03** Low Pulley x 100kg
- R04** Cable Crossover 2 x 70kg
- R05** Seated Leg Extension x 70kg
- R06** Leg Curl v Bed x 50kg
- R07** Seated Leg Press x 150kg
- R08** Seated Chest Press x 100kg
- R09** Seated Shoulder Press x 100kg
- R10** Multipress x 150kg
- R11** Seated Pec Deck x 100kg
- R12** Seated Bicep curl x 70kg
- R13** Dip/Chin (Kneeling) x 80kg
- R14** Squat & Calf x 150kg
- R15** Hip Conditioner x 70kg
- R16** Leg Extension & Curl x 70kg
- R17** Seated Tricep Press x 100kg
- R18** Seated Ab & Adductor x 70kg
- R19** Standing Calf Raise x 150kg
- R20** Multipulley x 100kg
- R21** Tricep Extension x 70kg
- R22** Multipulley (variable) x 100kg
- R23** Seated Lever Row x 100kg
- R24** Seated Abdominal x 70kg

#### Single Station Free Standing Units Pro Range

Side loaded encased weight stacks, Locking key weight selection, Nylon coated wire cable encased in the framework for safety, Cam transmission, Range of movement adjustment and mounted charts.

#### Order codes

- N01** Seated Lat x 100kg
- N02** Seated Long Pulley Row x 100kg
- N03** Seated Lever Row x 100kg
- N04** Low Pulley x 70kg
- N05** Seated Leg Extension x 70kg
- N06** Cable Crossover 2 x 70kg
- N07** Multipulley (variable) x 100kg
- N08** Seated Leg Curl x 70kg
- N09** Leg Curl "V" Bed x 70kg
- N10** Leg Extension and Curl x 70kg
- N11** Standing Calf Raise x 150kg
- N12** Seated Leg Press x 150kg
- N13** Recumbent Leg Press x 150kg
- N14** Seated Ab and Adductor x 70kg
- N15** Hip Conditioner x 70kg
- N16** Seated Chest Press x 100kg
- N17** Seated Shoulder Press x 100kg
- N18** Multipress inc Bench x 150kg
- N19** Seated Pec Dec x 70kg
- N20** Seated Abdominal x 70kg
- N21** Seated Back Extension x 70kg
- N22** Seated Arm Curl x 70kg
- N23** Assisted Dip and Chin x 80kg
- N24** Seated Tricep Press x 100kg
- N25** Standing Squat and Calf x 150kg
- N26** Dip and Chin (kneeling) x 80kg
- N32** Deltoid Side Raises x 70kg
- N33** Leg Glute Press x 100kg



# MULTIGYMS



Free standing units with nylon coated wire cable, cam transmission, locking key weight selection, spring plunger adjustments and mounted exercise charts.

## Order codes

### M4 - 3 STATION

Leg Extension and Curl  
Bench and Shoulder Press including bench  
Seated Pec Deck

### M2 - 4 STATION

Leg Extension and Curl  
Low Pulley  
Lat with hold down seat  
Bench and Shoulder Press including bench

### M1 - 5 STATION

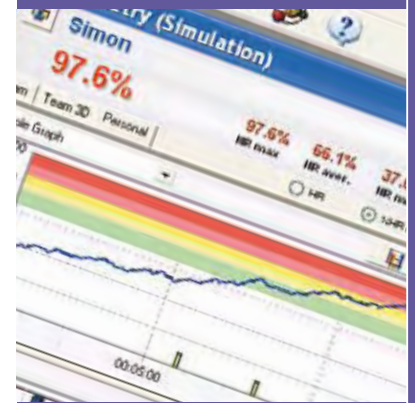
Leg Extension and Curl  
Bench and Shoulder Press including bench  
Low Pulley  
Lat with hold down seat  
Abdominal Board and Rack

### M3 - 8 STATION

Leg Extension and Curl  
Dipping  
Lat with hold down seat  
Abdominal Board  
Seated Leg Press  
Chinning  
Low Pulley  
Bench and Shoulder Press including bench

### M5 - 10 STATION

Leg Extension and Curl  
Dipping  
Lat with hold down seat  
Abdominal Board  
Seated Leg Press  
Chinning  
Low Pulley  
Bench and Shoulder Press including bench  
Squat Calf  
Twist-away



“The Hosand system has proved a valuable testing and monitoring tool for our Strength and Conditioning and Physiology work. It provides coaches, athletes and support scientists with vital real time heart rate data during training and testing. A great product for anyone recording heart rate”

*Mr Paul Barratt  
English Institute of  
Sport North West*

### 1 Polar F1 Heart Rate Monitor

New simplified use and great design for exercisers needing basic information about how their bodies react during exercise.

**Order code** POL-90025211 NOT ILLUSTRATED

### 2 Polar F3 Heart Rate Monitor

Entry level heart rate monitor with time of day.  
Includes - visual and audible alarm in target zone

**Order code** POL-90025114 NOT ILLUSTRATED

### 3 Polar F4 Heart Rate Monitor

A valuable fitness tool with stopwatch and convenient button free operation.

Includes - Polar OwnCal, Zone pointer

#### Order codes

**POL-90025940** Blue

**POL-90025941** Black

### 4 Polar F5 Heart Rate Monitor

Multifunctional heart rate monitor for fitness, general exercise and walking.

Includes - Polar OwnCal and SelfWalk test

**Order code** POL-90026151

### 5 Polar F6 Heart Rate Monitor

Excellent exercise motivator.

Includes - Polar OwnCal, Polar OwnZone, Polar OwnCode.

#### Order codes

**POL-90023350** Black

**POL-90023329** Blue

**POL-90026065** Beige

### 6 Polar F11 Heart Rate Monitor

Perfect for fitness enthusiasts.

Includes - Polar OwnCal, Polar OwnCode,  
Polar Fitness test, Polar Keeps U Fit.

#### Order codes

**POL-90023368** Red

**POL-90023370** Grey

### 7 Polar F92ti Heart Rate Monitor

Stylish titanium design.

Includes - Polar Fitness test, Polar OwnZone, Polar OwnCode.

**Order code** POL-90022199

### 8 Polar FS1 Heart Rate Monitor

Extra large digits and one-button functionality.

A truly easy-to-use product for all fitness activities.

Includes - basic heart rate and time of day.

#### Order codes

**POL-90027165** Yellow

**POL-90027176** Blue



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call today **0121 472 0361**  
or e-mail **info@cranlea.co.uk**



## Weight Management Monitors



### 9 Polar FS2 Heart Rate Monitor

Entry-level heart rate monitor. Displays heart rate and shows all essentials for enjoyable fitness experience.

Includes - Complete heart rate, time of day, target zone, backlight and WearLink coded belt

**Order code** POL-90027153 Black

### 10 Polar FS3 Heart Rate Monitor

All the necessities for safe and effective fitness, brief exercise summary for a better follow-up of the workout sessions.

Includes - Complete heart rate, time of day, target zone, backlight, Automatic target zone & WearLink coded belt.

**Order codes**

**POL-90027129** Grey

**POL-90027117** Red

### 11 Polar WM21/22 Weight Management Monitors

Weight Management monitor and diary with basic heart rate, exercise calorie burn and management of weekly exercise and daily nutritional targets.

**Order codes**

**POL-90021955** WM21 - Mens

**POL-90021928** WM22 - Womens

### 12 Polar WM21/22 Weight Management Monitors

Weight Management monitor with additional features

Includes - Polar OwnCal, Polar OwnZone, Polar OwnCode, and WearLink

**Order codes**

**POL-90022009** WM41 - Mens

**POL-90021982** WM42 - Womens

### 1 Polar S120 Heart Rate Monitor

Advanced features help to guide and assess effectiveness of training. The Exercise Set feature allows favorite workouts to be programmed and started at the push of a button.

Includes - Backlight, HR Based target zones, Uplink from PC

**Order code POL-902841**

### 2 Polar S210 Heart Rate Monitor

Can be programmed to store training parameters (TZ, timers, recovery) of up to five workouts.

Includes - OwnCode, Predicted HR max.

**Order code POL-902451 NOT ILLUSTRATED**

### 3 Polar S410 Heart Rate Monitor

Store up to five key workouts. Sonic Link technology transmits data to a PC for analysis.

Includes - Interval trainer, SonicLink, Polar Precision software

**Order code POL-902481**

### 4 Polar S610i Heart Rate Monitor

Valuable training tool with Infrared technology allowing direct download to a PC. Enhanced Polar Performance software enables exercise analysis.

Includes - Two-way infrared data communication

**Order code POL-902931**

### 5 Polar S625x Heart Rate Monitor

All heart rate and running data available on your wrist for a mobile performance lab.

Includes - Polar MobileLink and optional IR Interface for RS232 & USB

**Order code POL-90023849**

### 6 Polar RS100 Heart Rate Monitor

The RS100 will give you valuable feedback that can help improve fitness.

It combines all heart rate features with a full function stopwatch.

Includes - Interval trainer

**Order codes**

**POL-90025900** Tan **POL-90025884** Grey

### 7 Polar RS200 Heart Rate Monitor

Manage training for key events with Polar Sports Zones and Event Countdown Timer. Facility to upload settings to running computer and download workout files to Polar Running Coach Web Service for analysis. WearLink fabric transmitter included.

**Order codes**

**POL-90025950** Black **POL-90025963** Red

### 8 Polar RS200 SD Heart Rate Monitor

With the S1 foot pod the RS200SD provides accurate speed and distance data to combine pace with heart rate data.

Includes - All speed, pace & distance values

**Order codes**

**POL-90025976** Black **POL-90025989** Red





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### 1 Polar S150 Heart Rate Monitor

Provides all key heart rate data, speed and distance. The Exercise Set feature allows favourite workouts to be programmed.

**Order code POL-902871**

### 2 Polar S520 Heart Rate Monitor

Designed for the ultimate cross-trainer or triathlete. Added cycling features allow tracking of performance in all disciplines.

**Order code POL-902901**

### 3 Polar S720i Heart Rate Monitor

Combines the highest level of personal performance data, training conditions like altitude and temperature, cycling functions and IR technology and downloads directly to PC.

**Order code POL-902991**

### 4 Polar S725x Heart Rate Monitor

Sleek carbon fibre look and many new features. Set target zones as % of maximum heart rate. Download performance data to Nokia 5140 cell phone for instant feedback.

**Order codes POL-90027643**  
**POL-90027714** with power sensor

### 5 Polar CS100 Heart Rate Monitor

Combines all the features of a high end cycle computer with a fully functional heart rate monitor. Includes AutoStart, Autostop & Autolap

**Order codes POL-90025609**  
**POL-90025623** without heart transmitter

### 6 Polar CS200 Heart Rate Monitor

Wireless computer that gives all cycling speed and distance information, heart rate data and the ability to link to a PC.

**Order codes POL-90025638**  
**POL-90025650** with cadence



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### 1 Polar AXN 300 Heart Rate Monitor

Keeps track of ski runs with the slope counter, check pace down the mountain or up the rock with the vertical speed feature and the barometer monitors changing weather conditions.

Includes - altimeter, barometer, thermometer & automatic logbook

**Order codes** POL-90023707 Black  
POL-90023728 Yellow

### 2 Polar AXN 500 Heart Rate Monitor

All features of AXN300 with added compass for directional information, superior comfort of the WearLink fabric transmitter and a sleek stainless steel design.

Includes - IR data download, Nokia compatible and WearLink

**Order codes** POL-90023754 Black  
POL-90027199 Green

### 3 Polar AXN 700 Heart Rate Monitor

Features heart rate rest test to determine if the body is acclimatised to extreme weather conditions. Titanium case.

Includes - altitude/barometric pressure alarms and compass with bearing tracking

**Order code** POL-90023778

### Heart Rate Monitor Spares and Accessories

#### Order codes

<b>POL-925240</b>	Polar IR Serial Interface set
<b>POL-91025025</b>	Polar IR USB Interface set
<b>POL-920130</b>	T31 Transmitter set
<b>POL-920135</b>	T31 Coded Transmitter set
<b>POL-92024495</b>	T61 Coded Transmitter set
<b>POL-891121</b>	Strap set for T31/T61 small
<b>POL-891122</b>	Strap set for T31/T61 medium
<b>POL-891123</b>	Strap set for T31/T61 large
<b>POL-92022868</b>	WearLink 31 Coded Transmitter set XS-S
<b>POL-92022868</b>	WearLink 31 Coded Transmitter set M-XXL
<b>POL-91022687</b>	Strap set for WearLink 31 XS-S
<b>POL-91022688</b>	Strap set for WearLink 31 M-XXL
<b>POL-91024168</b>	Battery set for WearLink 31
<b>POL-91025921</b>	Indoor Cycle Bikemount
<b>POL-91026028</b>	Universal Bikemount



## Health & Wellbeing

### 1 **Cardiosport GO15 Heart Rate Monitor**

Compact watch design with stylish, wrap-around, colour coordinated strap. There is a single button for switching heart rate ON and OFF.

Includes - Time of Day, Heart rate wave display, Exercise time and Target Zone.

**Order code CAR GO15**

### 2 **Cardiosport GO25 Heart Rate Monitor**

Compact watch design with wrap-around strap, GO25 has a 10 hour stopwatch with countdown timer including single and repeat modes.

Includes - Memory recall, Visual training zone, Twin row display and Scan function.

**Order code CAR GO25**

### 3 **Cardiosport GO35 Heart Rate Monitor**

Top of the range monitor with personalised calorie counter based on exercise intensity, age and weight.

Includes - Time-in-Zone display, Memory recall, Automatic heart rate recovery timer and summary of total exercise.

**Order code CAR GO35**

## Fitness & Sport

### 4 **Cardiosport GT1 Heart Rate Monitor**

Features single button start for quick, simple use.

The large, easy to read display shows both percentage and current heart rate.

**Order code CAR GT1**

### 5 **Cardiosport GT2 Heart Rate Monitor**

There is a graphical display showing how hard the heart is working compared to the active heart zone. GT2 also features CardioZone which lets you set target zones during exercise. Quick start and 100 hour chronograph also included.

**Order code CAR GT2**

### 6 **Cardiosport GT3 Heart Rate Monitor**

Ideal monitor for competitive athletes and multi-sports. The GT3 comes with a massive 99 lap/split memory including average heart rate for each lap. CardioZone and scan function are also included.

**Order code CAR GT3**

### 7 **Cardiosport GT5 Heart Rate Monitor**

The complete heart rate monitoring solution.

The GT5 comes with Cardio Fitness Manager PC software for automatic uploading of exercise sessions and analysis.

**Order code CAR GT5**



**Cardiosport Quality**  
All Cardiosport monitors come with the following features -

- Water resistance to 30 metres
- ECG accurate
- Contour Lite transmitter belt with user changeable battery

**Warranty**  
Cardiosport are so confident in the quality of their heart rate monitors that they now give a lifetime warranty against faulty manufacture of the Contour Lite transmitter belt.

## 1 Hosand TM200 Telemetry Heart Rate Monitoring System

The HOSAND TM200 system is an indispensable work tool for coaches, fitness trainers and anyone needing to monitor the heart rate of athletes during training. The system can monitor up to 32 subjects simultaneously with great precision and no delay.

Subjects are monitored in real time, allowing complete freedom of movement unimpeded by links to machines or other devices. The system allows prompt analysis of heart rate through various stages of physical activity.

The transmitter intercepts the heart rate picked up by the chest strap and sends the data in real time to the receiver, they are then conveyed via the synchronisation box to the computer, where they are processed, organised and efficiently displayed by the SW200 software.

The TM200 system is easy to use and provides on-the-spot, easily interpreted analyses. A unique tool and invaluable aid in training programmes, physiotherapy and rehabilitation.

The HOSAND TM200 system comprises - standard heart rate chest strap, TX200 transmitter and sweat shirt with pocket for transmitter for each user, together with RX200 receiver, SX200 synchronisation box, SW200 software and system case.

### Order codes

<b>TM200-6</b>	6 user
<b>TM200-12</b>	12 user
<b>TM200-18</b>	18 user
<b>TM200-24</b>	24 user
<b>TM200-30</b>	30 user
<b>T5D521</b>	Heart rate monitor, transmitter and belt
<b>TMRX200</b>	Receiver with antenna
<b>TMTX200</b>	Transmitter unit
<b>TMSX200</b>	Synchronisation box and cable
<b>TM/CANARG</b>	Sweat shirt (silver)
<b>TM/CANBIA</b>	Sweat shirt (white)

## 2 Hosand TM100 Telemetry Heart Rate Monitoring System

The HOSAND TM100 is a system that enables fitness professionals to set specific goals for each of their clients, and to devise the most appropriate physical activity programme to reach these goals.

Applying heart rate telemetry, Hosand has revolutionised the relationship between the clients and fitness professionals.

HOSAND TM100 is based on the same technology that constitutes the core of the HOSAND TM200 heart rate telemetry system for professional sports.

### Order codes

<b>TM100-3</b>	3 user
<b>TM100-6</b>	6 user
<b>TM100-12</b>	12 user
<b>TM100-18</b>	18 user
<b>TM100-24</b>	24 user
<b>T5D521</b>	Heart rate monitor, transmitter and belt
<b>TMRX200</b>	Receiver with antenna
<b>TMTX200</b>	Transmitter unit
<b>TMSX200</b>	Synchronisation box and cable
<b>TM/CANARG</b>	Sweat shirt (silver)
<b>TM/CANBIA</b>	Sweat shirt (white)



## 1 Seca CT3000 ECG

Intelligent 3 channel ECG with interpretive programme.  
Auto-start button automatically produces ECG traces complete with rhythm strip, measurements and interpretation.  
Mains and battery operation. Battery recharges automatically providing 4 hours of continuous operation when fully charged.  
Filters for baseline, electrical and muscle tremor interference provide clear traces.  
Copy button for extra ECG printouts.  
Manual button provides real time print outs.  
Paper tray accommodates z-fold or roll paper.  
12 simultaneously acquired ECG traces printed on 90mm paper eliminates trace overlap.  
Supplied complete with mains cable, patient cable, pack of z-fold paper, 500 disposable electrodes and alligator clips.

### Order codes

**CT3000b** Basic ECG machine  
**CT3000m** Measurement ECG machine  
**CT3000i** Interpretive ECG machine

## 2 Seca CT8000i Interpretive

Stand alone use and PC connectivity for paperless ECG options.  
3 channel interpretive ECG, LCD screen and alpha-numeric keyboard.  
Internal memory for up to 45 stored ECG records.  
Paperless ECG option-download and electronically store ECG traces inside individual patients' records via RS232 port.  
Adult and paediatric interpretive software.  
Easy-to-use one touch button operation.  
Automatic Rhythm Strip and advanced filters (SSF and SBS) for clear traces.  
Mains and rechargeable battery operation.  
Supplied complete with mains cable, patient cable, pack of z-fold paper, 500 disposable electrodes and alligator clips.

**Order code CT8000i**

## 3 Seca CT8000p Interpretive A4 Presentation

12 channel interpretive ECG, LCD screen and alpha-numeric keyboard.  
Easy selection of traces from 12 x 1, 6 x 2 or the popular 4 x 3 plus Rhythm Strip one page report.  
High quality digital filters for clear traces.  
Internal memory for up to 45 ECG records.  
All parameters including filters are easily programmed through the on-screen menu for a one touch ECG.  
Can upgrade to spirometry, stress test & thrombosis indication.  
Adult and Paediatric interpretive software.  
On-screen lead test and lead-off indication.  
Mains and rechargeable battery operation.  
Supplied complete with mains cable, patient cable, pack of z-fold paper, 500 disposable electrodes and alligator clips.

**Order code CT8000p**

## 4 Seca CT500 ECG Trolley

Dedicated for use with the Seca CT3000 and CT8000 ranges of ECG machines.  
Features a spring loaded arm for control of patient cable and storage basket for electrodes and paper.

**Order code CT500**



1



## 1 Seca CT110 CardioConcept PC Based Resting ECG

Using a conventional 10 lead ECG cable, the seca CT110 acquires the ECG from the patient directly into the treatment room computer.

The interface is easy to use and the ECG recording can be viewed, printed and archived into the patients database.

High quality recordings of all 12 leads for viewing, printing or comparison with previous tracings.

Robust defibrillator proof connection to PC, the unit is powered from the USB port, eliminating the mains cable.

Paperless ECG records however if hard copy is required, the ECG can be printed with grid onto plain copier paper.

User friendly, the CT110 requires only two clicks of the mouse to take an ECG recording.

Data can be attached to all leading patient record systems.

Supplied complete with USB connecting cable, full length traditional patient cable and CardioConcept software on USB flash drive.

**Order code CT110**



# CARDIOLYZER

## 1 **CardioLyzer Ultra PC Based Exercise ECG**

Easy to use, PC based 12 channel ECG with interpretation and stress test capability. Can be used as a stand alone rest or stress test ECG, allowing assessment of cardiac and pulmonary function during exercise with a single test. ECG software completely integrated with latest Cortex Metasoft software, allowing recording and viewing of ECG signals during a full CPX test.

**Order code COR-420-01-980**

# CORTEX

## **Cortex Central Monitoring System**

The ECG CMS is a sophisticated PC based monitoring system designed to safely record the ECG of up to 16 patients during ergometry or mobile exercise simultaneously. The ECG of any patient can be seen on screen, allowing efficient monitoring of several patients at the same time.

Provides automatic control of up to 16 cycles or treadmills.  
Continuous recording of each station.  
Workload or heart rate controlled programmes.  
Optional heart rate monitoring via Polar HR Monitor.  
Easy to design individual workload protocols & store for future use.

A safe, efficient tool offering enhanced diagnostic capabilities for any modern rehabilitation environment.

*NOT ILLUSTRATED*

### **Order codes**

<b>COR-320-00-001</b>	ECG amplifier wired
<b>COR-320-00-002</b>	ECG amplifier telemetry
<b>COR-320-01-008</b>	8 station system
<b>COR-320-01-012</b>	12 station system

# HEARTSTART

## 2 **Heartstart FR2 Defibrillator**

Provides emergency first responders with an effective means to treat patients in sudden cardiac arrest.  
Lightweight, durable and easy-to-use automated defibrillator that allows the user to deliver lifesaving therapy on scene immediately. Patented SMART Biphasic waveform is the most patient friendly technology available today.

### **Order codes**

<b>M3841A</b>	Heartstart defibrillator
<b>M3840A</b>	Heartstart defibrillator with ECG display

# LIFEPULSE

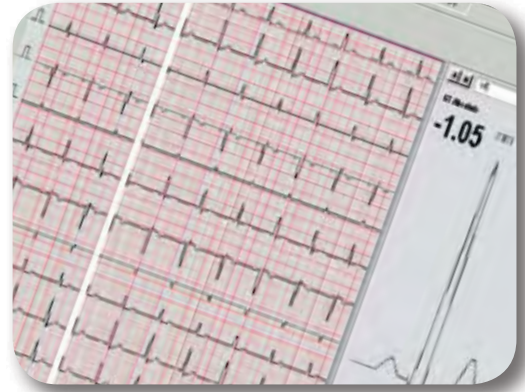
## 3 **LifePulse Monitors**

Available in two models.  
LP10 - single channel monitor featuring large screen and standard 3-channel monitoring.  
LP15 - as LP10 with the addition of high quality linear thermal array printer for clear ECG recording plus print out time and date.

### **Order codes**

<b>LP10</b>	Single channel ECG monitor
<b>LP15</b>	Single channel ECG monitor and printer

call today **0121 472 0361**  
or e-mail **info@cranlea.co.uk**



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## 1 NONIN 9500 Onyx Digital Finger Pulse Oximeter

Easy to Use	Automatic switch On/Off when finger is inserted
Reliable	Trusted by Clinicians Worldwide
Durable	Even in the toughest environments
Accurate	No routine calibration required
Cost Effective	Self contained unit no additional sensors needed
Compact	Small enough to carry at all times
Efficient	18 hours continuous use or approx. 1600 spot checks

**Order code NON-9500**

## 2 NONIN 8500 Series Hand Held Digital Oximeters

Easy to use	3 Button operation and bright LED display Indication of pulse quality
Reliable	Proven NONIN digital pulse oximetry technology
Durable	Extremely tough
Weight	280g with 6 x AA batteries
Compatible	Works with all NONIN sensors

### Order codes

<b>NON-8500</b>	Hand Held Pulse Oximeter
<b>NON-8500E</b>	Additional ear sensor
<b>NON-8000AA-1</b>	Additional finger sensor
<b>NON-8500L</b>	Finger sensor with 3 metre cable

## 3 NONIN 2500 PalmSat Digital Pulse Oximeter

Easy to use	2 Button operation and bright LED display Indication of pulse quality
Compact	Rubber unit with built in bumper
Flexible	AA & rechargeable batteries, or AC power
Powerful	72 hours memory for data storage
Weight	210g with alkaline batteries
Compatible	Works with all NONIN purelight sensors

### Order codes

<b>NON-2500</b>	PalmSAT Digital Pulse Oximeter
<b>NON-2500C</b>	Powered docking stand & charger with batteries
<b>NON-2500CC</b>	Cushioned carry case
<b>NON-8000Q</b>	Additional ear sensor

## 4 NONIN 3100 Wristox Digital Pulse Oximeter

Easy to use	Simply plug in the system and go
Compact	Fits comfortably onto patients wrist
Weight	25g (without batteries and strap)

**Order code NON-3100**

## 5 NONIN 2120 Avant Combined SpO2 and NIBP Monitor

Dual Function	Digital SpO2 and digital NIBP monitoring, adjustable user defined parameters, alarms and inflation pressure, Nurse Call and patient security functions
Compact	Lightweight and durable
Reliable	Icons/colour coded display indicates signal status
Flexible	Automated and On-Demand NIBP measurement

NEW GOLD STANDARD IN SPO2 & DIGITAL NIBP MONITORING

**Order code NON-2120**





Made in UK and guaranteed accurate to BS EN 1060 -1

## 1 Accoson Six Inch Wall Aneroid Sphygmomanometers

Large diameter white dial inclined for easy viewing  
Wall model has swivel mounting bracket. Desk model with convenient carry handle. Stand model with heavy stable base on five castors. Cuff stored behind dial. Supplied with adult Velcro cuff, latex free bulb & coiled tubing. Range 0-300mmHg

### Order codes

- COS-0340** Wall mount with adult bandage coiled tube cuff
- COS-0342** Wall mount with adult Velcro coiled tube cuff
- COS-0347** Wall mount with Large adult bandage coiled tube cuff
- COS-0349** Wall mount with large adult Velcro coiled tube cuff
- COS-0372** Wall mount - gauge & bracket only
- COS-0330** Desk with adult bandage coiled tube cuff
- COS-0332** Desk with adult Velcro coiled tube cuff
- COS-0337** Desk with large adult bandage coiled tube cuff
- COS-0339** Desk with large adult Velcro coiled tube cuff
- COS-0375** Desk - gauge & bracket only
- COS-0360** Stand with adult bandage straight tube cuff
- COS-0362** Stand with adult Velcro straight tube cuff
- COS-0367** Stand with large adult bandage straight tube cuff
- COS-0369** Stand with large adult Velcro straight tube cuff
- COS-0376** Stand - gauge only

### Accessories

- COS-1502** Valve and bulb for sphygmomanometer
- COS-1505** Pair of tubing connectors - male and female

## 2 Accoson Limpet Hand Held Aneroid Sphygmomanometers

One-handed use, suitable for both right and left hands.  
Lightweight plastic moulded case. Supplied in pouch case with brass zip and adult Velcro cuff, latex free bulb & coiled tubing. Range 0-300mmHg.

### Order codes

- COS-0290** With adult bandage straight tube cuff
- COS-0300** With adult bandage coiled tube cuff
- COS-0292** With adult Velcro straight tube cuff
- COS-0302** With adult Velcro coiled tube cuff
- COS-0297** With large adult bandage straight tube cuff
- COS-0307** With large adult bandage coiled tube cuff
- COS-0299** With large adult Velcro straight tube cuff
- COS-0309** With large adult Velcro coiled tube cuff
- COS-0374** Gauge only

## 3 Accoson Dekamet Mercury Sphygmomanometers

Lightweight die cast case. Shatterproof plastic manometer tube  
Mercury reservoir isolation valve. Steel hinge pivots. Supplied with adult size Velcro cuff & latex free bulb. Range 0-300mmHg

### Order codes

- COS-0121** With adult bandage cuff
- COS-0125** With adult Velcro cuff
- COS-0127** With wide range bandage cuff
- COS-0129** With wide range Velcro cuff

## 4 Accoson greenlight 300 Sphygmomanometers



Developed to provide a reliable and accurate alternative to the mercury sphygmomanometer.

Manual device with resolution of 2mmHg  
Easier to read than mercury  
Calibrated to 0.4mmHg  
Performs an auto calibration to zero each time it is switched on  
Display of cuff deflation rate  
Any cuff size can be used  
Frequent calibration checks are not required

### Order codes

- COS-0700** With adult bandage cuff
- COS-0702** With adult Velcro cuff
- COS-0707** With wide range bandage cuff
- COS-0709** With wide range Velcro cuff
- COS-1772** Wall mounting conversion kit
- COS-1774** Stand model conversion kit
- COS-1775** Carrying case

# AW

## 1 AW Monoscope AW Duoscope

Single or double sided general use, lightweight alloy chest piece. Adjustable head frame with external spring white plastic ear tips.

### Order codes

**AW-90.05.000** Monoscope stethoscope  
**AW-90.01.000** Duoscope stethoscope

# LITTMAN

## 2 Littmann Classic II S.E. Stethoscope

The standard of the health care professional worldwide. Incorporates Littmann dual frequency diaphragm, 28 inch tubing with integral adjustable head frame. Also available in teaching, paediatric and infant versions.

Supplied in presentation box. 3 year warranty.

### Order codes

**LIT-2201B** Standard - Black **LIT-2113** Paediatric - Black  
**LIT-2114** Infant - Black **LIT-2138** Teaching - Black

## 3 Littmann Cardiology STC Stethoscope

Cardiology grade acoustics in single sided chestpiece. Soft-touch insert greatly improves ergonomics and is said to reduce noise and provide better quality acoustics. Also available in blue or burgundy.

### Order codes

**LIT-4471** Black **LIT-4472** Burgundy  
**LIT-4473** Navy Blue

# BoSo

## 4 BoSo Medilife Wrist

State of the art technology. Small wrist mounted BP unit. 30 memory blocks provide 14 day profile. Large three value display. Supplied with storage case, batteries and blood pressure record card.

**Order code BOS-60.13.000** BoSo Medilife

## 5 BoSo Medicus Smart Complete

Simple, economical digital blood pressure monitor. Semi automatic measurement process. Alternating display of blood pressure and pulse. Irregular heart beat indicator. Auto off facility Over 2000 measurements from one battery. Optional large cuff available. Supplied with carrying case, adult cuff, batteries and record card.

### Order codes

**BOS-60.38.000** BoSo Medicus Smart complete  
**BOS-143.4.750** BoSo Medicus adult cuff  
**BOS-143.4.757** BoSo Medicus extra large adult cuff

## 6 BoSo Medicus Uno

Simple, reliable and accurate digital BP Unit. Simple one button operation. Memomatic pumping for gentle inflation. Memory of last measurement. Irregular heart beat indication. Large 3 value display. Supplied with carrying case, adult cuff, batteries and record card.

### Order codes

**BOS-60.36.000** BoSo Medicus Uno complete  
**BOS-143.4.750** BoSo Medicus adult cuff  
**BOS-143.4.757** BoSo Medicus extra large adult cuff

## 7 BoSo Medicus Standard

Fully automatic. Single push button operation. Four set inflation levels avoids over inflation. Large 3 value display. Optional memory and PC compatible units available. Supplied with carrying case, adult cuff, batteries and record card.

### Order codes

**BOS-60.10.000** BoSo Medicus Standard complete  
**BOS-60.19.000** BoSo Medicus Memory complete  
**BOS-60.17.000** BoSo Medicus PC Plus complete  
**BOS-143.4.750** BoSo Medicus adult cuff  
**BOS-143.4.757** BoSo Medicus extra large adult cuff



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customer  
commendation



body measurement & composition

“Having used various other pieces of equipment we have found the Bod Pod to be the most reliable and user friendly system on the market.”

*Dina Nakeb  
Head Physical  
Education and  
Sports Studies at  
New College*

## 1 Seca Dial Floor Scale

Mechanical personal scale with large dial.

Capacity 150kg Graduations 500g (Medical version 1kg)

### Order codes

- SEC-761** Dial Floor Scale
- SEC-7617** Dial Floor Scale - (Medical version class III)
- SEC-423** Carrying case

## 2 Seca Dial Column Scale

Mechanical column scale with BMI display.

Capacity 160kg Graduations 500g

### Order codes

- SEC-755** Dial Column Scale with BMI display
- SEC-756** Dial Column Scale with BMI display (Medical version class III)
- SEC-220** Height Measuring rod

## 3 Seca Beam Column Scale

Mechanical column scale with waist level beam.

Capacity 200kg Graduations 50g (Medical version 100g)

### Order codes

- SEC-710** Beam Column Scale
- SEC-709** Beam Column Scale (Medical version class III)
- SEC-220** Height Measuring rod

## 4 Seca Beam Column Scale

Mechanical column scale with eye level beam.

Capacity 220kg Graduations 50g (Medical version 100g)

### Order codes

- SEC-700** Beam Column Scale
- SEC-711** Beam Column Scale (Medical version class III)
- SEC-220** Height Measuring rod

## 5 Seca Digital Floor Scale

Digital flat scale.

Capacity 150kg Graduations 50g

### Order codes

- SEC-873** Digital Floor Scale
- SEC-429** Carrying case

## 6 Seca Digital Floor Scale

Digital flat scale with automatic power down function.

Capacity 200kg Graduations 100g <150kg> 200g

### Order codes

- SEC-880** Digital Floor Scale
- SEC-429** Carrying case

## 7 Seca Digital Floor Scale

Electronic personal scale with automatic power down function.

Capacity 200kg Graduations 100g (Medical 160kg / 200g)

### Order codes

- SEC-770** Digital Floor Scale
- SEC-888** Digital Floor Scale (Medical version class III)
- SEC-426** Carrying case



## 8 Seca Digital Floor Scale

Electronic personal scale with cable link remote display, BMI and limit value function.

Capacity 200kg Graduations 100g <150kg> 200g  
(Medical version 160kg / 200g)

### Order codes

**SEC-882** Digital Floor Scale

**SEC-884** Digital Floor Scale (Medical version class III)

**SEC-400s** Carrying case



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## 9 Seca Digital Platform Floor Scale

Scale for heavy subjects with large step-on platform and cable link remote display.

Capacity 360kg Graduations 100g  
(Medical version 300kg / 100g <200kg> 200g)

### Order codes

**SEC-634** Digital Floor Scale

**SEC-635** Digital Floor Scale (Medical version class III)



10

## 10 Seca RS232 Adaptor Kit

RS232 adaptor kit for transmitting data to the serial interface of a PC or printer. Suitable for models: 701, 797, 780, 882, 767, 634, 635

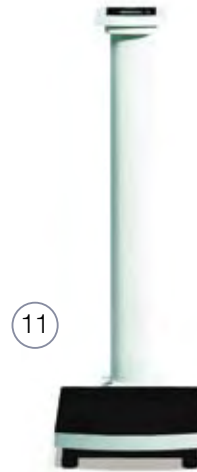
**Order code SEC-460**

## 11 Seca Digital Column Scale

Electronic personal scale with energy saving technology.

Capacity 200kg Graduations 100g

**Order code SEC-780**



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## 12 Seca Digital Column Scale with BMI

Electronic column scale with BMI function.

Capacity 160kg Graduations 200g

### Order codes

**SEC-797** Digital Column Scale with BMI (Medical version class III)

**SEC-220** Height measuring rod



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14

## 13 Seca Digital Column Scale with BMI

Electronic column scale with LC display, BMI function & 50g graduation.

Capacity 200kg Graduations 50g <150kg> 100g

### Order codes

**SEC-767** Scale with BMI

**SEC-701** Scale with BMI (Medical version class III)

**SEC-220** Height Measuring rod

## 14 Seca High Capacity Digital Column Scale with BMI

High capacity and stable electronic column scale with BMI function.

Capacity 250kg Graduations 100g

### Order codes

**SEC-703** Scale with BMI

**SEC-704** Scale with BMI (Medical version class III)

**SEC-220** Height Measuring rod

## 15 Seca Digital Weighing and Measuring Station with Automatic BMI

Determine weight, height and BMI in one step, with two displays.

Capacity 250kg Graduations 50g (Medical version 100g)

### Order codes

**SEC-763** Digital Column Scale with height and BMI

**SEC-764** Digital Column Scale with height and BMI

(Medical version class III)



15



## 1 Seca Measuring Tape

Automatic roll-up measuring tape.

Range 15 – 200cm Graduations 1mm

**Order code SEC-200**

## 2 Seca Wall Mounting Height Measure

Roll-up measuring tape with wall attachment.

Range 0 – 220cm Graduations 1mm

**Order code SEC-206**

## 3 Seca Wall Mounting Height Measure

Wall mounted telescopic measuring rod with extra wide measuring slide.

Range 6 – 230cm Graduations 1mm

**Order code SEC-222**

## 4 Seca Electronic Wall Mounting Height Measure

Wall mounted measuring rod with wireless data transmission to separate display.

Range 62 – 210cm Graduations 1mm

**Order code SEC-242**

## 5 Seca Free Standing Height Measure

Stand-alone, easy to set up and transport measuring rod.

Range 20 – 207cm Graduations 1mm

**Order code SEC-214 NOT ILLUSTRATED**

## 6 Seca Free Standing Height Measure

Mobile measuring unit on castors for convenient transport.

Range 6 – 230cm Graduations 1mm

**Order code SEC-225**

## 7 Seca Scale Mounting Height Measure

Telescopic Measuring rod for attachment to column scales.

Range 85 – 200cm Graduations 1mm

**Order code SEC-220**



## 1 Harpenden Skinfold Caliper

The Harpenden Skinfold Caliper is one of the most up to date and versatile calipers on the market. Used correctly it will give good service and reliable results for many years.

Range 0 to 50mm Increments 0.2mm

**Order code HSK-BI**

1



## 2 Harpenden Condyle Caliper

Nickel plated caliper for making a variety of body measurements. Supplied in vinyl carrying case.

Range 0 to 140mm Increments 1.0mm

**Order code HCC-98.604**

2



## 3 Harpenden Anthropometer

Constructed of a light anodised alloy, the Harpenden Anthropometer is a counter recording instrument that can be effortlessly operated from the tips of its branches. The operator can, by means of their free fingertips, feel their way to the desired measuring points in order to obtain a degree of accuracy not possible with conventional anthropometers.

Range 50 – 570mm Accuracy 1.0mm

Comes complete with sturdy carry case.

**Order code HAR-98.601**

3



## 4 Harpenden Stadiometer

Harpenden Stadiometer with standard/VR high speed counter is a counter recording instrument with an effortless counter balanced movement. It is available with either a standard counter or a high speed VR (Veeder-Root) counter.

Range 600 – 2100mm Accuracy 1.0mm

**Order codes**

**HAR-98.602** Stadiometer with standard counter

**HAR-98.602VR** Stadiometer with VR high speed counter

4



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## 5 Harpenden Portable Stadiometer

This instrument has been designed to give all the advantages of the Harpenden Stadiometer in a portable form. It has the same sensitive counter balanced movement and will give accurate and direct readings.

Range 810 – 2060mm

Accuracy 1.0mm

**Order codes**

**HAR-98.603** Stadiometer Portable

**HAR-98-608** Stadiometer Pocket

## 6 Anatomical Tape

- Dual graduated in millimetres and inches
- Self retracting oil cloth tape measure
- Metal bodied
- 1.5m

*NOT ILLUSTRATED*

**Order code HOL-17.427.15**

# MALTRON

## 1 Maltron Bio-scan Analysers

Practical, non-invasive, non-intrusive, highly accurate diagnostic monitoring system for assessing nutritional and clinical status. Measure the flow of electrical signals as they pass through fat, lean tissue and water, each resisting the flow of electrical signals at different rates giving a highly reliable and accurate measure of the amounts of each of these components.

### Order codes

**BF900** Features Body Fat %, Target Fat %(min/max), Basal Metabolic Rate (BMR) and Body Impedance.

**BF906** Extra features include, Body Mass Index (BMI), Body Fat Weight, Target Weight, Lean Weight, Lean %, Water % and Target Water (min/max).

**BF907** Extra features include, Energy Expenditure (daily/weekly)



# TANITA

## 2 Tanita 310 Body Fat Analyser

The extra large weight capacity and low-profile scale platform make this model ideal for measuring the elderly or obese. A separate digital display with integrated printer provides complete body composition profile in seconds including: Weight, Body Fat Percentage, Body Fat Mass, Fat Free Mass, Total Body Water and Basal Metabolic Rate.

Weight Capacity 270kg (36st)  
Weight Graduation 0.2kg (0.4lb)  
Platform Size 400 x 381 x 40mm 4-Point Load Cell

**Order code TBF-310GS**



## 3 Tanita 350 Body Fat Analyser

Platform-based LCD which reports weight, body fat percentage and Body Mass Index (BMI) in seconds. For in-depth reporting capability the BF-350 can be connected to a PC running Tanita's HMS Plus Software package to give further detailed analysis, including Basal Metabolic Rate (BMR), Total Body Water and Fat Free Mass. With a weight capacity of 200kg/31st, the single-point load cell weighing system in this scale guarantees precision and durability.

**Order code TBF-350**



## 4 Tanita 410 Body Fat Analyser

All in one model includes a column mounted digital display for ease of use. The integrated printer provides complete body composition profile in seconds.

Capacity 200kg  
Graduation 100g/0.2lb  
Platform Size 305 x 324 x 76mm

**Order code TBF-410GS**



## 5 Tanita BC418MA Segmental Body Composition Analyser

Prints out a complete body composition profile in seconds, including Weight, Body Fat Percentage, Body Fat Mass, Fat Free Mass, Estimated Muscle Mass and Basal Metabolic Rate. Through the use of 8 polar electrodes, it can show separate body mass readings for the right arm, left arm, trunk, right leg and left leg. The all-in-one compact column mount design, with integrated printer, makes the BC-418MA perfect for use in small, dedicated spaces.

**Order code TBF-BC418MA**

## BODYSTAT



6

### 6 **BodyStat BS1500 Body Fat Analyser**

Simple and repeatable bio-impedance unit for the estimation of body fat percentage. It utilises a single frequency measurement approach, using disposable electrodes fitted to the subjects hand and foot. The unit has a two line LCD screen allowing the display of the subjects results. Stored data can be downloaded to a PC for storage and evaluation by use of the optional software programmes.

**Order code BS1500**



7

### 7 **BodyStat BS1500MDD Body Fat Analyser**

This unit offers a quick, easy and non-invasive method to measure body composition including body fat, lean mass, dry lean mass and total body water. Metabolic rates and waist/hip ratio are also calculated. It contains separate equations for children over 5 years and adults. Includes Body Manager software package

**Order code BS1500MDD**



9

### 8 **BodyStat QS4000 Body Composition Analyser**

The QuadScan 4000 device offers a quick, easy, economical and non-invasive alternative to other methods of fluid assessment and body composition analysis, e.g. radioisotope dilution, underwater weighing. By measuring the impedance at 5kHz and 200kHz and by applying predictive equations, it is possible to estimate both ECW and TBW (Total Body Water) respectively and by deduction, ICW. ECW can be related to Extra-Cellular Mass and ICW to Body Cell Mass.

**Order code QS4000 NOT ILLUSTRATED**

### 9 **Body Manager Programme**

The Body Manager programme is ideal for tracking changes in body composition over a period of time. Features of the programme include - Body composition, Trend reports, History graphs, Weight and activity monitors and Cardiac risk analysis.

**Order code BM1500**

### HydroStatic Weighing System

For further information regarding the installation requirements of the HydroStatic water tank please contact our service team.

### HydroStatic Weighing System

This package is designed for use in exercise physiology laboratories and other research centres, for the accurate determination of body density using the underwater measurement method.

This low cost system comprises of a large cylindrical, thick wall HD polyethylene tank, with a gantry to support the subjects harness assembly. The measurement is made using a high quality load cell and digital display unit.

Manual entry PC software programme is supplied to compute the results.

**Order code HWS1 NOT ILLUSTRATED**

**System comes complete with heater and filtration unit.**

1



1 **BodPod Research Body Composition System**

Complete turnkey system measuring and tracking body fat and lean mass using patented air displacement technology. Technology is based on the same whole-body measurement principle as hydrostatic weighing. High level of accuracy, ease-of-use and fast test time, has made the BodPod the method of choice for measuring body composition. Its reliability has been proven in the field by leading universities, sports teams, fitness clubs, military organisations and weight management centres. In fact, no other body composition measurement system can claim the combination of accuracy, safety, and speed that can only be found in the BodPod.

- BodPod chamber with dual ability to measure lung volume or use predicted values
- Dedicated computer system with data management capability
- Digital scale with computer interface
- Physical calibration standards

**Order code BodPod Research**







## 2 BodPod ST Body Composition System

Based on the same principle as underwater weighing, this is the accepted gold standard for measuring body composition.

The only device of its type in the world, the BodPod uses a patented air displacement technology to provide highly accurate results more quickly and easily than underwater weighing.

Integrate into diet and exercise programs to provide valuable feedback and motivation.

- Proven accuracy using whole body density
- Fast (less than five minutes)
- Easy and comfortable
- Self-test capability

The spacious interior accommodates a wide variety of shapes and sizes.

Routinely used to measure the body composition of university and professional athletes.

Complete analysis, including printed results, takes less than five minutes.

Simple prompts guide the user through the test process - includes self-test option with audio prompts for testing.

**Order code BodPod ST**

## BodPod System Options and Accessories

Option for exporting data through the BodPod software package.

Tubes and filters are also available.

*NOT ILLUSTRATED*



## 3 PeaPod® Infant Body Composition System

Use the PEA POD in research and clinical settings to help -

- Assess infant growth
- Optimize nutritional and pharmacological interventions
- Investigate and optimize release criteria in NICU settings
- Establish normative body composition data
- Mobile
- Minimal operator training required
- Safe and non-invasive
- Accommodates most infant behaviours
- Comfortable testing environment
- Patented air displacement technology to assess percent body fat and fat-free mass
- Accurate and precise based on research findings
- Short test time (approximately 7 minutes)
- For infants weighing between 1kg (2.2lbs) and 8kg (17.6lbs)
- Menu-driven software with data management capability

**Order code Pea Pod Infant**



## 1 InBody 220 Body Composition Analyser

Touch-screen for data input. Customised handle-bars to guide proper posture. Footpad measures weight & body composition.

Multi frequency analysis	20kHz to 100kHz
Measurement range	10 to 250kg
Outputs	Weight, body fat mass, percentage body fat, skeletal muscle mass, BMR, BMI, waist hip ratio and exercise planner

**Order code InBody 220**

## 2 InBody 320 Body Composition Analyser

Touch-screen for data input. Customised handle-bars to guide proper posture. Footpad measures weight & body composition.

Multi frequency analysis	5, 50 and 250kHz
Measurement range	10 to 250kg
Outputs	Weight, body fat, percentage body fat, intracellular water, extracellular water and total body water, lean body mass, BMR & BMI segmental impedance index

**Order code InBody 320**

## 3 InBody 520 Body Composition Analyser

Reproducible electrode system (8 point tactile electrodes)

Multi frequency analysis	5, 50 and 500kHz
Measurement range	10 to 250kg
Outputs	Weight, body fat, percentage body fat, skeletal muscle mass, BMR, BMI, waist hip ratio, muscle measurement of each limb, trunk, body cell mass, bone mineral, fitness score and body shape graph

**Order code InBody 520**

## 4 InBody 720 Body Composition Analyser

Medical and Research modes results sheet automatically printed.

Multi frequency analysis	1, 5, 50, 250, 500 and 1000kHz
Measurement range	10 to 250kg
Outputs	Body composition, muscle fat diagnosis, obesity diagnosis, BMI, BMR, percentage body fat, segmental lean mass, segmental oedema, visceral fat analysis, nutritional evaluation, bone mineral content, waist hip ratio & weight control

**Order code InBody 720**

## 5 InBody BS20 Body Composition Analyser

Fully mobile unit with battery backup. Research mode (resistance, reactance and phase angle). Accurate assessment of ICW and ECW.

Multi frequency analysis	1, 5, 50, 250, 500 and 1000kHz
Measurement range	10 to 250kg
Outputs	Body composition, muscle fat diagnosis, obesity diagnosis, BMI, BMR, percentage body fat, segmental lean mass, segmental oedema, visceral fat analysis, nutritional evaluation, bone mineral content, waist hip ratio & weight control

**Order code InBody BS20**



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“We are using the Mega system for investigating quadricep and hamstring muscle activity in patients with knee problems. A vital tool for research in physiotherapy and orthopaedics.”

*John Dixon  
Research Fellow and  
Laboratory Manager  
University of Teesside*



## 1 Cybex Humac Norm

The Humac Norm is your solution for measuring human performance.

In one machine it offers 22 isolated-joint movement patterns, four resistance models (isokinetic, isotonic, isometric and passive) and numerous reports to meet the measurement and exercise needs of today's researchers.

The Humac Norm includes attachments to perform the isolated patterns covering the shoulder, elbow, wrist, hip, knee, ankle and back.

The Humac software allows users to easily carry out testing of patients both quickly and hassle free. It offers a variety of easy-to-read reports with options including -

- Test
- Graphic Summary
- Narrative
- Progress
- Multi-Session
- Curve Overlay
- Exercise
- Repeatability
- Group Summary
- Normative Data

The Humac's Preference settings give you the flexibility to customise the software to your specific needs. Preference options include feedback, data analysis and reporting.

The Humac software is constantly under development and is always backward compatible with all Cybex machines. This makes sure that your software and your investment is never obsolete.

**Order code**    **CYBEX** Cybex Norm Isokinetic system

The Humac Norm is fully compatible with all Mega EMG systems.

For further information please contact our sales team.

## Mega EMG Systems

### 1 Muscle Trainer

Muscle Trainer is a small, two channel EMG biofeedback system designed for both research and rehabilitation. It is a small, portable system, which also has the latest MegaWin software. Easy to use and with a rechargeable battery the Muscle Trainer allows measurements in memory or real time.

Comes complete with data unit, pre-amplifier cables, USB computer interface and the latest MegaWin Software.

#### Order codes

**MT-METR** Muscle Trainer 2 channel averaged EMG system  
**MT-MT2C** Preamp Cable 1 channel muscle trainer

### 2 ME6000 Bio Monitor

Designed to meet the most demanding needs in biomechanics research, rehabilitation, occupational health, sports medicine and neurology. The ME6000 is a small and lightweight unit (only 344 grams) including EMG cables. Can also be used with other sensors such as goniometers, accelerometers, heart rate and ECG, inclinometers and foot switches.

Compatible with force plates, isokinetic & motion analysis systems. Store measurements easily with the 256Mb memory card or monitor in real time using telemetry or USB connections.

System configurations include 4, 8, and 16 channel monitoring via USB or WLAN telemetry connection.

Options include - Neuro monitor, Isolation unit (together with multiple sensors), memory card, video EMG and a new waterproof system. Fully compatible with the latest MegaWin software.

#### Order codes

**MT-M6T4** ME6000 4 channel EMG system  
**MT-M6T4WLAN** ME6000 4 channel telemetry EMG system  
**MT-M6T8** ME6000 8 channel EMG system  
**MT-M6T8WLAN** ME6000 8 channel telemetry EMG system  
**MT-M6T16WLAN** ME6000 16 channel telemetry EMG system

#### Options

**MEG-990000** Neuro monitor for ME6000  
**MW-DVO** Digital Video EMG  
**ME-4ISO** Isolation unit, 4 isolated analogue inputs  
**MT-WPROOF4** Waterproof case for ME6000 4 channel  
**MT-WPROOF8** Waterproof case for ME6000 8 channel  
**MT-WPROOF16** Waterproof case for ME6000 16 channel

#### Spares

**MT-VP00257** Pre-amp cable 2 channel (for ME6000/4/8)  
**MT-VP00275** Pre-amp cable 4 channel (for ME6000/16)

**Please contact sales team for further information**

### MegaWin Video EMG option

Compatible with most Mega EMG systems and allows real time measurement, laboratory and field, using standard digital video equipment. Images and data automatically synchronized via simple trigger switch. Analyse collected EMG data and video images with playback functions, snapshots and reports.

**Order code MEG-MW-VO**

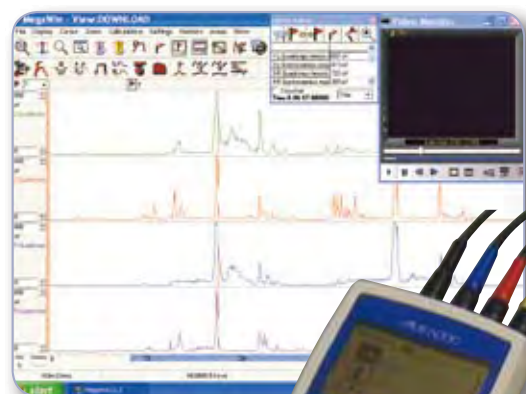
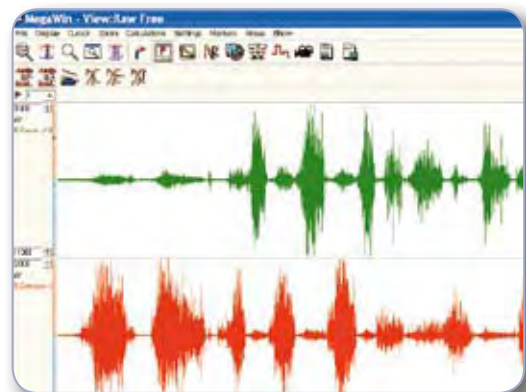
### MegaWin ME6000 Neuromonitor

The new neuromonitor system allows EMG measurement applications in measurements of evoked potentials (EP), transcranial magnetic stimulation responses (TMS) and reflex such as H-reflex and M-reflex. By using the latest software you can also combine various triggering possibilities, such as a patella hammer or nerve stimulators.

**Order code MEG-NEURO**



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## 1 ME8000 Laboratory System

Designed mainly for research and rehabilitation purposes. Collection rate of up to 10.000Hz for each channel and the filtering band can be adjusted individually.

The system is available in 8 or 16 channels with the option of connecting other sensors such as goniometers, accelerometers and external equipment via an isolation unit.

### Order codes

**MP-MESP8M** ME8000 8 channel hard wired EMG system  
**MP-MESP16MS** ME8000 16 channel hard wired EMG system

## WinAnalyze Motion Analysis Systems

Range of video motion analysis systems with latest auto-tracking windows software. Easy to use software allows use of existing standard digital video equipment. Systems available as software only or as complete packages for both 2D and 3D analysis with either normal or high speed cameras.

## 2 WinAnalyze software

Tracks objects in digital image sequences and delivers analysis of object motion. Automatic object tracking eliminates need for inconvenient manual data input and can even be used without reflective markers.

- Highly sophisticated image processing algorithms
- Can be used without markers
- Analysing AVI sequences
- Analysing panning and zooming camera recordings
- Sub pixel accuracy tracking
- Optional pre-processing of the image sequences
- Calculation and analysis of velocity, acceleration and angles
- Calculation and analysis of centres of mass with body models
- Can be used with high-speed, high-resolution cameras or conventional DV cameras

### Order codes

**MEG-Motion 2D**  
**MEG-Motion 3D**

## WinAnalyze 2D Systems

Complete system with Pentium 4 PC workstation, camera, tripod, reflective markers and software. Packages are available for analysis at 50, 500 and 1825 frames per second.

### Order codes

**MEG-Motion 50-2D** Normal speed analysis system - 50fps  
**MEG-Motion 500-2D** High speed analysis system - 500fps  
**MEG-Motion 1825-2D** High speed analysis system - 1825fps

## WinAnalyze 3D Systems

Complete 3D motion and gait analysis system comprising - Pentium 4 workstation, 2 or 4 digital or fastcam HS cameras, tripods, cables, reflective markers, calibration model & software. Upgrade from normal to high speed available.

### Order codes

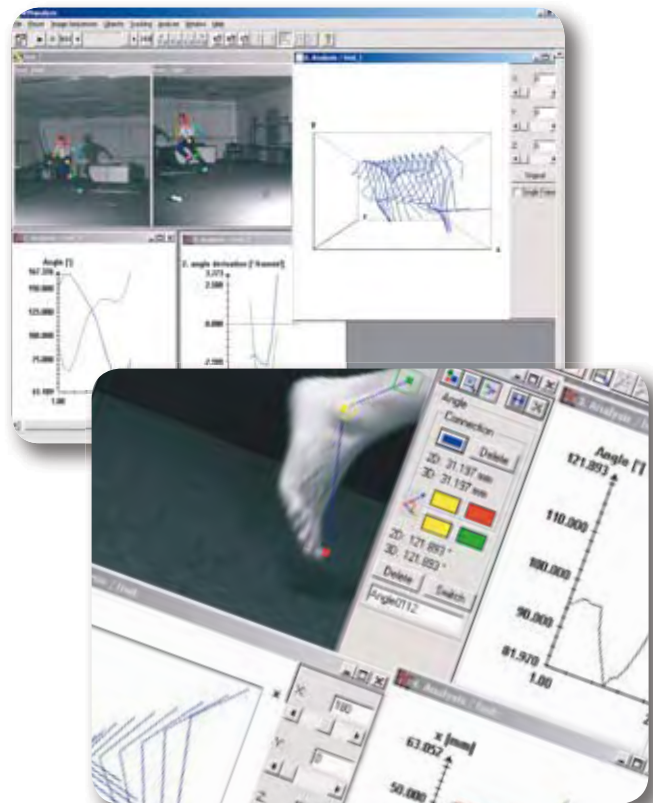
**MEG-Motion 50-3D2** Analysis system - two cameras - 50fps  
**MEG-Motion 50-3D4** Analysis system - four cameras - 50fps  
**MEG-Motion 500-3D2** Analysis system - two cameras - 500fps  
**MEG-Motion 500-3D4** Analysis system - four cameras - 500fps

## Video Cameras and accessories

For further information on video camera and system accessories such as reflective markers and calibration models please contact our sales team.



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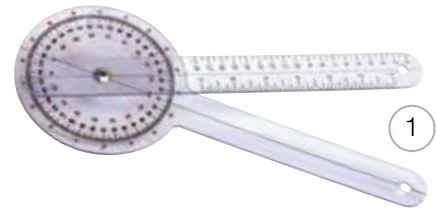
### 1 Plastic Goniometers

These goniometers are manufactured in a strong, clear plastic and have three scales calibrated with the International Standards of Measurement System.

Available in 2 sizes - 8" and 12".

#### Order codes

**GON35** Plastic Goniometer 8"  
**GON40** Plastic Goniometer 12"



### 2 Clinical Goniometer

This goniometer has been specially designed for easy use in the clinical environment. The clear, unambiguous dial makes for easy reading of the angle.

It is extremely robust, small enough to carry in a pocket and can measure ranges of joint motion not easily obtained using conventional models. By maintaining the goniometer on a fixed spot on the subject and moving the joint through its range of motion, the angle can be read off directly from the dial.

**Order code CG** Clinical Goniometer



### 3 Leighton Flexometer

A highly accurate, 360°, gravity type goniometer designed specifically for measuring the flexibility of major segmental movements of the body as an aspect of fitness, rehabilitation and athletic performance.

It has fully adjustable strap attached allowing it to be fixed to virtually any part of the body to provide many different measurements.

The unit consists of a twin rotating dial construction with ingenious locking mechanism to ensure easy and accurate measurements. The Leighton Flexometer comes complete with an extensive manual explaining the various test protocols that are possible.

**Order code C360** Leighton Flexometer



### 4 Takei Flexmeters

#### Forward

This forward flexmeter is a simple device for measuring "stand and reach" with an easy to read scale allowing accurate measurements to be obtained. Range -20 to 35cm

#### Backward

A floor standing device for back flexion measurements with hinged measuring arm to allow maximum results to be made. Range 10 to 80cm

#### Order codes

**TKK5003** Forward Flexmeter Analogue  
**TKK5103** Forward Flexmeter Digital  
**TKK5004** Backward Flexmeter Analogue  
**TKK5404** Backward Flexmeter Digital



### 5 Sit & Reach Box

Simple device to measure trunk flexion. Robust, sheet steel construction with sliding magnetic measuring bar. Range 0 - 55cm.

**Order code SARM** Sit & Reach Box Metal



# BIOMETRICS

## 1 Biometrics Clinical Goniometry Systems

Basic packs of instrumentation & sensors for static joint angle readout.

**CS** 1 x Angle Display Unit, 2 x connect leads, instrument case with tape and scissors and 1 x Goniometer (choice of SG65, SG110, SG110A, SG150, SG150B).

**CS-X** 1 x Angle Display Unit, 2 x connect leads, instrument case with tape and scissors, 1 x Goniometer SG110, 1 x Goniometer SG150 and 1 x Torsiometer Q150.

### Order codes

**CS65** With wrist sensor      **CS110** With elbow/neck sensor  
**CS110A** With ankle sensor      **CS150** With knee/hip sensor  
**CS150B** With back sensor      **CS100X** With elbow/neck, knee/hip & forearm/back sensors

## 2 Biometrics Laboratory Systems

The Laboratory Systems package the DataLINK 8 channel amplifier with the most often requested sensors in either basic or enhanced configurations.

**LS800** 1 x DataLINK and software, 1 x event marker, 1 x contact switch assembly, 8 x connect leads, instrument case with tape and scissors, 2 x SG65, 2 x SG110 and 2 x SG150 Goniometers.

**LS900** 1 x DataLINK and software, 1 x event marker, 1 x contact switch assembly, 8 x connect leads, instrument case with tape and scissors, 2 x SG65, 2 x SG110, 2 x SG150 Goniometers, 1 x Q150 Torsiometer, 4 x EMG Pre-amplifiers, Earthing strap and 1 x EMG sensor tape (350/pack).

### Order codes

**LS800** Laboratory Goniometry  
**LS900** Laboratory Goniometry & EMG

## 3 Biometrics Portable Systems

Comprehensive packages of sensors and instrumentation for static and dynamic measurements in clinical settings, research centres or any remote locations like workplaces or sports fields.

**PS800** 1 x DataLOG and software, 1 x event marker, 1 x AngleDisplay Unit, 8 x connect leads, instrument case with tape and scissors, 2 x SG65, 2 x SG110 and 2 x SG150 Goniometers.

**PS850** Earthing strap, 1 x EMG sensor tape (350/pack) and instrument case with tape and scissors.

**PS900** 1 x DataLOG and software, 1 x event marker, 1 x Angle display unit, 8 x connect leads, 2 x SG65, 2 x SG110, 2 x SG150 Goniometers, 8 x EMG Pre-amplifiers, Earthing strap, 1 x EMG sensor tape (350/pack), and instrument case with tape and scissors.

### Order codes

**PS800** Portable Goniometry      **PS850** Portable EMG  
**PS900** Portable Goniometry and EMG

## 4 Biometrics Deluxe Data Acquisition System

Combines both DataLOG and DataLINK units together with a comprehensive package of sensors to provide a complete solution to goniometry and EMG monitoring.

**DS300** 1 x DataLINK and software, 1 x DataLOG and software, 2 x event marker, 8 x connect leads, 2 x SG65, 2 x SG110, 2 x SG150, 2 x SG110A, 1 x SG150B Goniometers, 1 x Q150 Torsiometer, 8 x EMG Pre-amplifiers, Earthing strap, 1 x EMG sensor tape (350/pack) and instrument case with tape and scissors.

**Order code DS300** NOT ILLUSTRATED



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## 1 Biometrics Components and Sensors

Portable displays and amplifiers interface with the range of sensors for quick, simple and accurate measurements. May be purchased separately for specific user requirements.

**Order codes** *NOT ILLUSTRATED*

- ADU301** Angle display unit 2 channel
  - K100** Analogue amplifier 4 channel
  - F35** Goniometer for finger/toe measurements
  - SG65** Goniometer for wrist measurements
  - SG110** Goniometer for elbow/ankle/neck measurements
  - SG110A** Goniometer for ankle measurements
  - SG150** Goniometer for knee/hip measurements
  - SG150B** Goniometer for back measurements
  - Q110** Torsiometer for neck/forearm measurements
  - Q150** Torsiometer for forearm measurements
- New Products**
- NC1** Angle-X movement sensor small (finger & hand)
  - NC2** Angle-X movement sensor large
  - GX1** Myo-EX EMG pre-amplifier with integral electrodes
  - GX2** Myo-EX EMG pre-amplifier for disposable electrodes

## 2 Takei Analogue Handgrip Dynamometer

Large, easy to read scale and pointer to allow quick and easy recording of results. Adjustable stirrup for comfortable use.

Range 0 – 100kg Graduation 0.5kg

**Order code** **TKK-5001**

## 3 Takei Digital Handgrip Dynamometer

Large, easy to read LCD screen providing quick and accurate measurements. Adjustable stirrup for comfortable use.

Range 5.0 – 100kg Graduation 0.1kg

**Order code** **TKK-5401**

## 4 Takei Analogue Leg/Back Dynamometer

Large, easy to read scale and pointer indicating peak reading to allow quick and easy recording of results. Handle and adjustable chain length ensure comfortable use.

Range 0 – 300kg Graduation 1kg

**Order code** **TKK-5002**

## 5 Takei Digital Leg/Back Dynamometer

Large LCD screen allow measurements to be made with greater accuracy and resolution than the 5002. Handle and adjustable chain length ensure comfortable use.

Range 20 – 300kg Graduation 0.5kg

**Order code** **TKK-5402**

## 6 MIE Digital Pinch/Hand Grip Analyser

Measures hand grip and finger "key grip" pinch performance. Transducer connected to digital unit displaying true force values in Newtons, Kilograms or Pounds. Gives peak or instantaneous display of force. Auto zero button for ease of calibration. Accurate to one Newton across physiological range.

**Order code** **DGM** with CAS software

### MIE Digital Myometer

Multi-functional force analyser measuring magnitude of isometric contractions in various muscle groups. Transducer measures force which software automatically converts to the more useful measure of torque. Data therefore displayed as a measured torque (Nm) about a joint. Provides full graphical and numerical data for both strength and endurance tests.

**Order codes** *NOT ILLUSTRATED*

- DMM** Digital myometer with CAS software
- CGM** Combined pinch/hand grip & myometer with CAS software

call today **0121 472 0361**  
or e-mail **info@cranlea.co.uk**



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### 1 Lode Pinch grip Dynamometer

Easy to handle and provides reliable measurements.  
Wide measuring range and accuracy make it perfect for research.

Measuring range 0 -150N  
Dimensions Beam 98mm x 30mm x 30mm,  
Amplifier 280mm x 315mm x 85mm  
Weight Beam 141g, Amplifier 2150g

#### Order code

**LOD-915901** Pinch grip Dynamometer transducer



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### 2 Lode Handgrip Dynamometer

Ergonomically formed measuring beam connected to amplifier.  
Read measured values from amplifier display or with optional PC connection package. System can show peak force (i.e. highest measured value for more than 5 seconds)

Measuring range 0 -1000N  
Dimensions Beam 216mm x 24mm x 65mm,  
Amplifier 280mm x 315mm x 85mm  
Weight Beam 612g, Amplifier 2150g

#### Order code

**LOD-915900**



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### 3 Just Jump System

Measures vertical jumps. Times both sprints and foot speed.  
Hand held computer displays height and hang time for one jump, average height, ground time, explosive power for four jumps and sprint times. Additional power testing software package available.

#### Order code

**JJP-7610P**



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### 4 Takei Digital Jump Meter

Vertical jumping height apparatus is waist fitted with a cord secured to a rubber mat. Obtain results via large, easy to read, LCD screen.

#### Order code

**TKK-5106**



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### 5 Tip to Tip Jump Board

Simple, effective device for measuring jumping height relative to height of athlete. Can be fixed to any suitable vertical surface

#### Order codes

**H/T2T** Tip to Tip Jump Board

**H/T2THG** Tip to Tip Jump Board with height measuring gauge



5

### 6 Standing Long Jump Junior

Fully graduated lightweight folding mat for standing long jump.  
Laminated activity card supplied.

#### Order code

**P/SLJ**

#### Standing Long Jump Intermediate

Fully graduated, portable mat for standing long jump includes own carrying bag. Laminated activity card supplied.

#### Order code

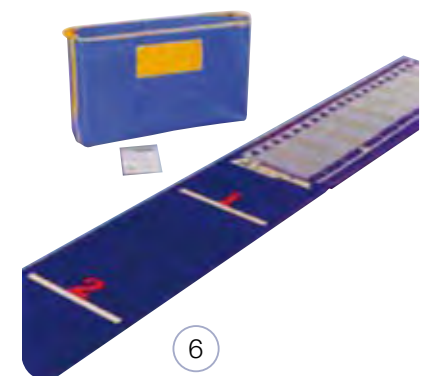
**H/SLJM**

#### Standing Long Jump Senior

Fully graduated mat for standing long jump competition.  
Includes foam landing mat and wooden take-off board

#### Order code

**H/SLJ**



6



Featuring a wide range of high quality respiratory products, from the latest spirometry equipment to the simplest of accessories such as nose clips and connectors.

## 1 Micro Medical Respiratory Pressure Meter

Portable, non-invasive solution for accurate assessment and management of the strength of respiratory muscles.

### Order codes

**MRPM01** Respiratory pressure meter  
**MRPM01S** Puma software

## 2 Micro Medical MS01/MS03 Spirometers

Specifically designed for situations where a low cost respiratory monitor is required.

The MS01 measures FEV1 and FVC.

The MS03 can also measure PEF and FER.

### Order codes

**MS01** Micro Spirometer (FVC & FEV1)  
**MS03** Micro Spirometer Plus with RS232 output

## 3 Micro Medical ML3535 Micro Loop Spirometer

The ultimate pocket spirometer, allows high quality measurements to be made virtually anywhere. Featuring a bi-directional digital volume transducer with proven accuracy and stability, the Micro Loop displays, actual, predicted and percent predicted data with the option of interpretation and predicted lung age.

### Order codes

**ML3535** Micro Loop Spirometer with LCD display  
**ML3535S** Micro Loop Spirometer with Spida 5 software  
**MRT6000** Airway resistance option

## 4 Micro Medical ML3500 Micro Lab Spirometer

Class-leading, high definition screen. Displays Volume/Time and complete Flow/Volume Loops (using either open or closed loop test techniques). Can measure up to 36 spirometry indices and has storage capacity for over 1000 patient test sessions.

### Order codes

**ML3500** Micro Lab Spirometer with printer (no software)  
**ML3500S** Micro Lab Spirometer with Spida 5 software

## 5 Micro Medical ML2525 USB PC Spirometer

Advanced Spirometer that plugs directly into PC.

Software is structured around Spida 5 with its user-friendly modern multi-window visual interface. Measure up to 41 spirometry indices, open/closed loop test techniques and overlay previous test curves.

**Order code ML2525**

## 6 Micro Medical SPIDA 5 Spirometry Software

Spida 5 is a 32-bit package which is simple to use and employs a state of the art multi-window, graphical interface.

Up to 41 spirometry indices can be measured, previous test curves overlaid for comparison and both open and closed flow/volume loop test techniques used.

NOT ILLUSTRATED

**Order code SD5000**





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or e-mail **info@cranlea.co.uk**

## 7 Micro Medical MK8 Spirometer

- Stylish new design
- Onscreen QWERTY keyboard for simple data entry
- High definition, true colour touch screen
- Easy-load, high speed printer
- Help button for instant on-screen guidance
- USB connectivity for PC and external HP A4 printouts
- Quality control prompts to ensure acceptable technique
- Predicted values calculation and interpretation
- Reversibility testing with % change calculation
- Animated incentive display
- Large internal memory for storage of full spirometry reports
- Links to Spida and SpidaXpert PC spirometry software
- Up to 45 parameters measurable
- Conforms to all spirometry standards (ATS, BTS, ERS)
- Rechargeable battery or mains power
- Supplied in a tough and attractive carry case
- Dimensions – 255 x 120 x 28mm
- Unit weight – 715g

### Order codes

**MK8-SPIRO** Spirometer

**MK8-SPIDA** Spirometer and SPIDA 5 package

## 8 Mini Peak Flow Meter M3410

Determines the maximum expiratory peak flow rate. Supplied complete with instructions for use and universal mouthpiece.

**Order code M3410**

## 9 TurboAire Challenger

The TurboAire Challenger is an excellent source of portable arctic air for bronchial provocation and Exercise Induced Asthma studies throughout the year. Perform bronchial challenge using cold air, without the wait or worry associated with obtaining methacoline. Schedule tests when convenient. The TurboAire Challenger supplies cold air any time, anywhere.

- Low temperature -20°C
- Lightweight
- Instant cold dry air
- Ease of use with either exercise or isocapnic hyperventilation
- Operates on compressed air from tanks
- No electricity, chemicals, or liquids
- No maintenance
- Low cost, economical operation
- Adult and paediatric mouthpiece options

### Order codes

**2009** TurboAire Challenger with digital Thermometer

**2009-1** High Pressure Hose

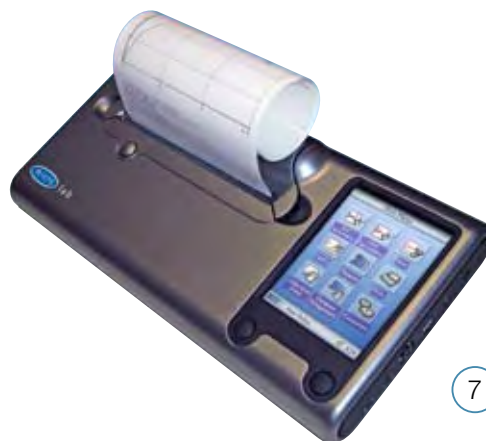
**2012** Target Ventilation Meter

**9055** Support Arm System with tabletop clamp

**112078-2600** T shaped NRB Valve Medium 35mm ports

**112079-2700** T shaped NRB Valve Large 35mm ports

**1003** Large Adult Mouthpiece





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## 1 Hans Rudolph Fixed Orifice Pneumatichs

Fixed-orifice pneumatichs for use with the RSS 100 Research Pneumatich system.

### Adult Flow Sensor

Range 1.0 to 180 L/min  
Accuracy +/- 3% of reading  
Resolution 0.1 L/min

### Neonatal Flow Sensor

Range 0.24 to 40 L/min  
Accuracy +/- 3% of reading  
Resolution 0.01 L/min

### Order code

**171109** Adult Fixed-Orifice pneumatich  
**171110** Neonatal Fixed-Orifice pneumatich

## Hans Rudolph Linear Pneumatichs

Specifically designed, patented and manufactured for Physiological and Respiratory testing, the Hans Rudolph linear pneumatichs utilise a unique housing configuration and screen assembly design to convert the flow of gas in either direction into a proportional linear signal of differential pressure from the two pressure taps for input into a differential gas pressure transducer. Models are available with the appropriate parameters, such as Volume Dead Space, Linear Flow Range and Large/Small Flange Port tube size connection.

All models are available as Heated and Non-Heated Pneumatichs and are supplied with an individual calibration record.

### Order codes

**3830** Adult heated pneumatich (0-400 L/min)  
**4830** Adult non-heated pneumatich (0-400 L/min)  
**3813** Adult exercise heated pneumatich (0-800 L/min)  
**4813** Adult exercise non-heated pneumatich (0-800 L/min)

Many other models available

## Hans Rudolph Heater Controls

Proportional solid state heater control accurately regulate temperature.

### Order codes

**3850AF** Heater control for one pneumatich (230v - 50Hz)  
**3850BF** Heater control for two pneumatichs (230v - 50Hz)

## Hans Rudolph Pneumatich Amplifier series 1110

Provides the instrumentation necessary to produce an analogue output proportional to flow when connected to any Hans Rudolph linear pneumatich. It will also provide an analogue output of an independent auxiliary pressure signal for measurement of pressure anywhere in the circuit.

### Features

- Flow Ranges from 0-3, 0-5, 0-10, 0-35, 0-100, 0-160, 0-400 and 0-800 litres per minute
- Zero and gain adjustment pots for both outputs
- LED Flow direction indicator

### Order codes

**1110A** Pneumatich amplifier +/- 70cmH<sub>2</sub>O range  
**1110B** Pneumatich amplifier +/- 140cmH<sub>2</sub>O range

## Hans Rudolph Research Pneumatich RSS100

The RSS100 and RSS100/HR research systems measure gas flow using the differential pressure method. As gas flows through the pneumatich, the microprocessor based system converts the measured differential pressure to volumetric flow rate. Flow and pressure measurements are used to calculate several ventilatory parameters such as respiratory rate, lung compliance, tidal volume, minute volume, positive end expiratory pressure, etc.

### Features

- Custom Windows software for displaying, storing and reviewing data
- Embedded microprocessor calculates flow rates and provides correction for gas density, viscosity, temperature, barometric pressure and airway pressure
- Flow Ranges from 0-3, 0-5, 0-10, 0-35, 0-100, 0-160, 0-400 and 0-800 litres per minute

The RSS100/HR is for use with linear pneumatichs. Please order the appropriate Hans Rudolph heated or non-heated linear pneumatich and heater control unit. The RSS100 is for use with adult and neonatal fixed-orifice pneumatichs.

One of each size is supplied with the module. Additional quantities sold separately.

### Order codes

**RSS100** Research pneumatich system  
**RSS100/HR** Research pneumatich system



## 2 Mouthpieces - vinyl

General purpose soft blue vinyl reusable mouthpieces.

### Order codes

- 1004** Paediatric mouthpiece
- 1002** Small adult mouthpiece
- 1000** Medium adult mouthpiece
- 1001** Medium large mouthpiece
- 1003** Large adult exercise mouthpiece

## Mouthpieces - silicone rubber

High quality silicone rubber reusable mouthpieces

### Order codes

- 602070-9063** Silicone rubber mouthpiece 35mm-38mm
- 602073-9062** Silicone rubber mouthpiece 28mm-33mm
- 602077-9066** Silicon mouthpiece with saliva trap 35mm-38mm
- 602078-9065** Silicon mouthpiece with saliva trap 28mm-33mm

## Mouthpieces - disposable

To suit most peak flow spirometry systems.  
Cardboard mouthpieces packaged in 500.

**Order code DMP-1188**

## Nose clips

Disposable injection moulded plastic with soft vinyl nose pads  
Stainless steel, torsion sprung design with soft silicone rubber nose pads and foam cushion.

### Order codes

- 201413-9014** Disposable nose clip
- 112571-9015** Reusable spring nose clip

## Filters

### Order codes

- 1420/1** Bactiguard bacterial filter (box of 50)
- 2800/01** Spiroguard bacterial/viral filter (box of 50)
- FIL6050** Disposable filter for MRT6000 (pack of 50)

## Connectors

A wide range of 2-way and 4-way precision machined connectors available.

## Directional Valves

This "T" shape stopcock has a 28.6mm ID bore through the port adapters to provide good laminar flow. In the normal position, the flow is straight through from the inlet side to an outlet adapter (port).

### Order codes

- 112230-2100C** 3 way T shaped stopcock 35mm ports
- 112253-2500C** 4 way T shaped stopcock 35mm ports
- 112256-2400C** 5 way T shaped stopcock 35mm ports

## 3 Breathing Valves

### Order codes

- SAL-VALVE** Lightweight T shaped NRB Salford valve
- 112078-2600** T shaped NRB valve medium 35mm ports
- 112079-2700** T shaped NRB valve large 35mm ports
- 112262-2600B** T shaped NRB valve medium with saliva collector
- 112263-2700B** T shaped NRB valve large with saliva collector

## 4 Breathing Masks

### 7900/8900 series

Standard mouth only and mouth & nasal silicone breathing masks

### Order codes

- 201018** NMB Face Piece adult medium with cap, straps & clips
- 201020** NMB Face Piece adult large with cap, straps & clips
- 201021** NMB Face Piece adult small with cap, straps & clips
- 200595** MB Face Piece adult medium with cap straps & clips
- 200596** MB Face Piece adult small with cap, straps & clips
- 200537** MB Face Piece paediatric large with cap, straps & clips
- 200542** Adaptor adult mask to 2700 valve
- 200543** Adaptor adult mask to 2600 valve
- SAL-ADAPTOR** Adaptor adult mask to Salford valve

### 7400 series

New reusable "V Mask" for exercise stress testing. This new translucent blue face mask has a new anatomically contoured face piece and sealing flange shape with ribbed support on the nose area for a leak-free comfortable fit. Multi-patient, multi-use, reusable & steam autoclavable. Optional Sensa Seal provides an additional sealing surface around the bridge of the nose when needed. Headgear and adaptors sold separately.

### Order codes

- 669170** "V-Mask" large, face piece only
- 669171** "V-Mask" medium, face piece only
- 669172** "V-Mask" small, face piece only
- 669173** "V-Mask" extra small, face piece only
- 669174** "V-Mask" petite, face piece only
- 201418** Large quick-release headgear
- 200525** Cap, straps and clips (all sizes)

# RESPIRATORY ACCESSORIES

## 1 Douglas Bags and accessories

### Order codes

<b>300-1316</b>	Douglas Bag 1 litre
<b>300-1200</b>	Douglas Bag 2 litre
<b>300-1309</b>	Douglas Bag 5 litre
<b>300-1218</b>	Douglas Bag 10 litre
<b>300-1201</b>	Douglas Bag 25 litre
<b>300-1310</b>	Douglas Bag 30 litre
<b>300-1311</b>	Douglas Bag 40 litre
<b>300-1134</b>	Douglas Bag 50 litre
<b>300-1312</b>	Douglas Bag 60 litre
<b>300-1065</b>	Douglas Bag 100 litre
<b>300-1043</b>	Douglas Bag 150 litre
<b>300-1199</b>	Douglas Bag 200 litre
<b>300-1313</b>	Douglas Bag 250 litre
<b>300-1314</b>	Douglas Bag 300 litre
<b>300-1315</b>	Douglas Bag 500 litre
<b>300-1306</b>	Douglas Bag 1000 litre
<b>50-7624</b>	Drain plug
<b>50-7699</b>	Spring plug
<b>A-1056-14</b>	Douglas Bag 1" adaptor assembly
<b>A-1080-06</b>	Douglas Bag tubing adaptor (35mm)



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## 2 Calibration Gases & Accessories

### Order codes

<b>MicroCan 20</b>	Calibration gas can 20L (5% CO <sub>2</sub> , 17% O <sub>2</sub> )
<b>MicroCan 20</b>	Calibration gas can 20L (100% Nitrogen)
<b>MicroFlow</b>	Control valve & flow indicator (MicroCan20)
<b>MicroCan 110</b>	Calibration gas can 110L (5% CO <sub>2</sub> , 17% O <sub>2</sub> )
<b>MicroCan 110</b>	Calibration gas can 110L (5%CO <sub>2</sub> balance Nitrogen)
<b>MicroCan 110</b>	Calibration gas can 110L (100% Nitrogen)
<b>Pressreg1</b>	Variable pressure regulator (MicroCan110)
<b>Microreg</b>	Preset flow regulator 1000ml/min
<b>Case 1</b>	Plastic carrying case to house 2 x 110L cylinders



2

## 3 Drierite

Drierite desiccant used to absorb moisture in gas analysis sampling circuits.

**Order code 1035** Drierite 1lb bottle



3

## 4 Volume Calibration Syringes

A range of highly accurate calibration syringes. Shafts with multiple graduations and adjustable stop.

### Order codes

<b>112742-5550</b>	Calibration Syringe 0.5 litre
<b>112706-5540</b>	Calibration Syringe 1 litre
<b>112028-5530</b>	Calibration Syringe 3 litre
<b>112092-4900</b>	Calibration Syringe 7 litre

### Motorised calibration syringes

With optional metabolic simulator

### Order codes

<b>17050-2</b>	Motorised Calibration Syringe 2 litre
<b>17050-4</b>	Motorised Calibration Syringe 4 litre
<b>17051</b>	Metabolic Accessory Kit for expired Ventilation



4

The above list of respiratory products represents a small part of our extensive range. Please call for details.





metabolic measurement

Having gained experience in using the Metamax 3B portable gas analysis system over the past three years, I have only positive things to say about it.

*Simon George  
University of  
Wolverhampton*

# CRANLEA

## 1 Douglas Bag Analysis Systems

The traditional way of measuring Oxygen Uptake has been to use Douglas bags. However, difficulty in being able to mate the various components and avoiding leaks has always been a problem. We offer a wide range of complete gas collection and analysis systems using the highest quality components available. Also included is analysis software and instructions.

### Collection package comprises

Black, steel frame to support 4 bags  
1 x Hans Rudolph 2700 breathing valve  
4 x Hans Rudolph 2100C stopcocks  
3 x Mouthpieces & nose clips  
2 x 4 way sample stopcocks  
4 x 100 litre Douglas bags  
Breathing & sample tubes

### Analysis Package as above plus

Digital dry gas meter                      Extraction unit  
Temperature monitor                      Drying tube & Drierite  
Additional breathing and sample tubes

The system can be supplied with alternative breathing valves, mouthpieces and nose clips, as well as different sizes of Douglas Bags. Please contact us for details.

### Order codes

**DBS4** Douglas bag collection package 4 x 100 litre

**DBS4+** Douglas bag analysis package 4 x 100 litre

**Gas analysers sold separately.**

## 2 Douglas Bag Extraction Unit

This product is designed to evacuate a Douglas bag via the Digital Dry Gas Meter, at the correct flow rate. The system consists of a high flow, 240 volt pump with a rotary controller, contained in a robust steel case. Tapered hose adaptor suits most sizes of breathing tube.

**Order code**    **CRADBEU**

## 3 Digital Dry Gas Meter

The model 6162 is a diaphragm type, positive displacement dry test meter, ideal for measuring the volume of expired gas collected in Douglas Bags or gases drawn through a system. The tapered inlet and outlet ports are suitable for most commonly used breathing hoses.

### Specifications

Accuracy	± 1.5%	Tapered ports	22-35mm
Display	4 digit LCD	Range	0-999.9 litres
Resolution	0.1 litre	Power supply	9V battery

**Order code**    **6162**

# HITECH

## 4 Hitech Oxygen & Carbon Dioxide analyser

Accurate Oxygen and Carbon Dioxide analyser with integral sample pump, flow meter and flow control valve.

The system is enclosed in a sturdy steel case with carrying handle for easy transportation.

### Specifications

Ranges	0 -10% CO <sub>2</sub> , 0-25% O <sub>2</sub>
Resolution	0.01% O <sub>2</sub> & CO <sub>2</sub>
Programmable alarm output	

### Order codes

**GIR250** Combined oxygen and carbon dioxide analyser

**235/0047** Replacement O<sub>2</sub> cell





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## SERVOMEX

### 5 Servomex 1440 Oxygen & Carbon Dioxide analyser

Provides high performance measurement of gases, available in single modules measuring either Oxygen or Carbon Dioxide or dual version measuring both.

Also available as a fast response analyser, with a response time of <200msecs at 150ml/min.

**Accuracy**       $O_2 \pm 0.1\%$        $CO_2 \pm 0.1\%$

**Order codes**

- 1440**       $O_2/CO_2$  analyser - with sample pump
- 1440 CO2**       $CO_2$  analyser - with sample pump
- 1440 O2**       $O_2$  analyser - with sample pump
- 1440SP**      Sample pump for 1440 analyser fitted
- 1440FR**      Fast response  $O_2/CO_2$  analyser with sample pump



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### 6 Servomex 5200 Multi Purpose analyser

Suitable for measuring levels of Oxygen, Methane, Carbon Dioxide and Carbon Monoxide. It has a range of sampling and power options to suit individual needs.

Available with a choice of two paramagnetic oxygen transducers (standard and high accuracy). They both offer fast, selective measurement of Oxygen, without the disadvantage of electro-chemical or zirconia cells.

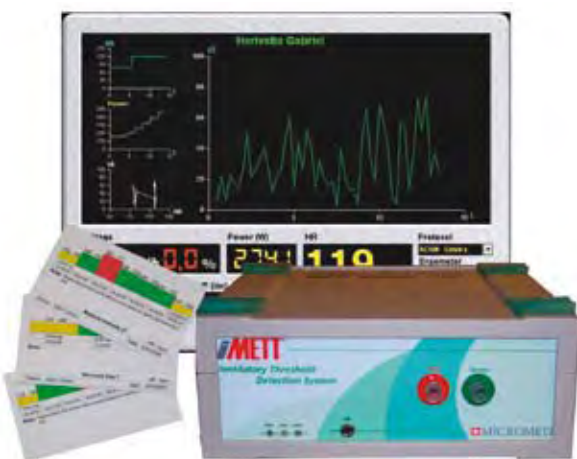
**Accuracy**       $O_2 \pm 0.1\%$        $CO_2 \pm 0.1\%$

**Order codes**

- 5200S**       $O_2/CO_2$  analyser - standard
- 5200HA**       $O_2/CO_2$  analyser - high accuracy
- 5200/O2**       $O_2$  analyser - standard
- 5200HA/O2**       $O_2$  analyser - high accuracy
- 5200/CO2**       $CO_2$  analyser - standard

**Factory fitted options**

- 5200 BAT**      Rechargeable internal battery
- 5200 OUT**      4 - 20 mA output per channel



7

### 7 Woodway iMETT

Now everyone can experience the benefits of  $VO_2$  testing. The iMETT from Woodway is an easy to use, inexpensive metabolic testing system that evaluates and monitors aerobic fitness by determining each individual's anaerobic threshold. Create individualised weight loss or aerobic fitness programmes and incorporate the iMETT assessment into existing training packages.

**Each iMETT program includes**

- VE analyser with software to determine cardio programmes
- Design testing protocols
- Additional fitness assessments

Other fitness evaluations are based on predictions, estimates and outdated charts. We're all familiar with 220 minus age – but these programmes have large margins of error and a history of unreliable results.

Determine a true heart rate training zone with a precise submax  $VO_2$  test. From the data you'll be able to provide customised exercise prescriptions that can help athletes reach their exercise goals quickly and safely.

**Order code**      **iMETT**

## 1 Cortex MetaLyzer II Laboratory Mixing Chamber System

Stationary metabolic stress test system for routine exercise testing applications using a dynamic mixing chamber system.

All systems are supplied with the latest version of Metasoft which comes packed with features to enhance the analysis and measurement functions.

Available with either standard or high flow volume transducer.

### Transducers

DVT	0.1 to 12 l/s
TripleV	0.05 to 20 l/s

### Order codes

- COR-210-01-996** MetaLyzer II Metabolic system with DVT  
**COR-210-01-995** MetaLyzer II Metabolic system with Triple V

## Cortex MetaLyzer 3B Laboratory Breath-by-Breath System

Powerful, fully equipped CPX system featuring true breath-by-breath and intra-breath technology. With automatic verification tests prior to each measurement, the MetaLyzer is guaranteed to be working accurately at all times. All MetaLyzers feature automatic control of most electronic ergometers and treadmills as standard.

Dimensions	235 x 165 x 85mm
Weight	1660g

### Order codes

- COR-220-01-009** MetaLyzer 3B Metabolic system with DVT  
**COR-220-01-008** MetaLyzer 3B Metabolic system with Triple V

### MetaLyzer Options

A variety of options are available for the MetaLyzer including Spirometry, Pulse Oximetry, Motion tolerant NiBP, Nutritional Assessment and Non-Invasive Cardiac Output. The MetaLyzer can also be supplied with the latest SmartCart trolley, fully set-up PC workstation package with dual screen monitors, Automatic Gas Calibrator and a complete 12 lead ECG system.

### Order codes

- COR-720-09-016** Spirometry software module  
**COR-720-09-018** Nutritional assessment software module  
**COR-720-09-17** Non invasive cardiac output software module  
**COR-010-01-996** Automatic gas calibrator  
**COR-010-01-994** Calibration kit basic  
**COR-010-01-993** Calibration kit full  
**COR-720-09-017** Cortex zone trainer  
**COR-670-01-003** 3 Channel monitoring ECG (ML3B)  
**COR-630-01-001** Treadmill connection cable 5m (Woodway)  
**COR-610-01-003** Ergometer connection cable 3m (Lode)



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## 4 Cortex Statera

Unlike classical stress testing which requires maximal patient effort to calculate useful results, Statera calculates patient risk using linear regression analysis. This means that significant patient risk data can be obtained using a shorter, less stressful test for the patient.

The Statera test system can be combined with a fully integrated 12-lead ECG stress test and also be interfaced to other peripheral devices (e.g. Blood Pressure)

### Order codes

**COR-720-01-990** MetaLyzer 3B Statera system  
**COR-720-01-993** MetaMax 3B Statera system

## 5 Cortex CardioLyzer Ultra

An easy to use, PC based 12 channel ECG with interpretation and stress test capability allowing ECG signals to be recorded and viewed during a full CPX test.

The CardioLyzer can also be used as a stand alone rest or stress test ECG, allowing you to assess cardiac and pulmonary function during exercise with one single test.

### Order code

**COR-420-01-980** 12 channel ECG system

## 6 Cortex MultiLyzer

The MultiLyzer module enables NiBP and Pulse Oximetry measurements to be performed and monitored using the latest Metasoft software. This option is available with both the MetaLyzer and the MetaMax.

*NOT ILLUSTRATED*

### Order codes

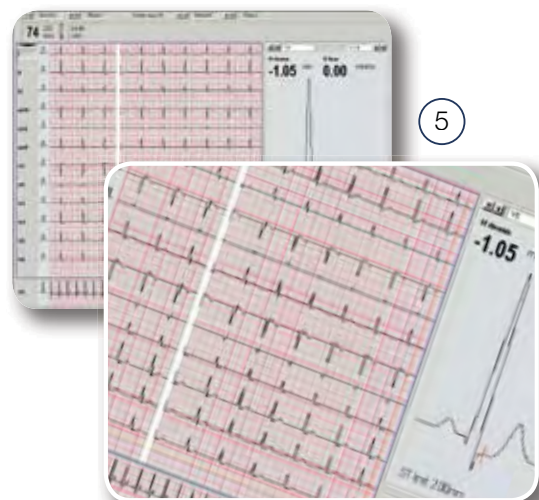
**COR-420-01-970** MultiLyzer base system  
**COR-420-01-09** MultiLyzer NIBP module  
**COR-420-01-008** MultiLyzer Pulse Oximeter (finger sensor)

## 7 Cortex SmartCart Systems

The SmartCart give you the opportunity to turn either your MetaLyzer or MetaMax into a neat, well organised workstation on wheels. It accommodates the entire testing equipment on a sturdy base as well as offering a broad variety of configurations to customise the cart for your exact requirements.

### Order codes

**COR-821-01-903** Smartcart MetaLyzer laptop  
**COR-821-01-904** Smartcart MetaLyzer PC mobile  
**COR-821-01-901** Smartcart MetaMax laptop  
**COR-821-01-902** Smartcart MetaMax PC mobile



All Cortex metabolic systems are fully compatible with Lode ergometers and Woodway treadmills.

For further information please contact our sales team.

## 1 Cortex MetaMax 3X Ambulatory Mixing Chamber System

The MetaMax 3X is a portable cardiopulmonary exercise system, combining a dynamic mixing chamber system with an award winning design.

- Bi-Directional telemetry allowing remote monitoring and storage of test data whilst sending audio commands.
- Real time audio feedback of test results for the athlete during testing.
- Superior mixing chamber technology for collection of data even under extreme testing conditions.
- 8Mb of on-board memory allowing full testing without PC
- Audio commands can be customised and sent direct to the athlete during testing.

### Order codes

**COR-140-01-990** MetaMax 3X Metabolic system with DVT

**COR-140-01-993** MetaMax 3X Metabolic system with Triple V

## Cortex MetaMax 3B Ambulatory Breath-by-Breath System

Portable cardiopulmonary exercise system using the clinically proven breath-by-breath technology. Powerful multi functional tool designed to fit into any demanding test environment.

- True breath-by-breath/intra-breath measurements.
- Unique shoulder design with unrivalled athlete comfort.
- Easy to expand from a stand alone system to integrated workstation.

Dimensions 120 x 110 x 45mm  
Weight 590g

### Transducers

DVT 0.1 to 12l/s  
TripleV 0.05 to 20l/s  
Telemetry frequency 433 to 434MHz  
Range up to 1000m

### Order codes

**COR-130-01-990** MetaMax 3B Metabolic system with DVT

**COR-130-01-992** MetaMax 3B Metabolic system with Triple V

## Cortex MetaMax Options

The MetaMax has a range of options including -

Spirometry, Ergometer/Treadmill control, MultiLyzer Pulse Oximetry & Blood Pressure, PC based 12 lead ECG System, Stationary Kit, SmartCart trolley and Calibration Kits.

### Order codes

**COR-720-09-016** Spirometry Software module

**COR-720-09-009** Ergometer/Treadmill Control for MetaMax

**COR-420-01-970** MultiLyzer Base system

**COR-420-01-009** MultiLyzer NIBP module

**COR-420-01-008** MultiLyzer Pulse Oximeter (finger sensor)

**COR-670-01-004** 3 channel monitoring ECG

**COR-420-01-980** CardioLyzer Ultra 12 channel ECG system

**COR-010-01-994** Calibration Kit basic

**COR-010-01-993** Calibration Kit full

**COR-130-01-996** MetaMax Stationary Kit





laboratory analysis

An extensive range of products for both in depth laboratory and portable analysis.

## 1 Analox LM5 Champion Sports Lactate Analyser

The LM5 can obtain a lactate result on only 5µl of whole blood in less than 20 seconds from injection into the analyser. In fully portable form, the P-LM5 lactate analyser provides one of the quickest near-patient lactate analysers available.

### Order codes

**LM5** Lactate analyser  
**PLM5** Portable Lactate analyser

## 2 Analox GL5 Sports Multi-assay analyser

The GL5 MicroStat analyser offers the five simplest direct enzymatic-rate chemistries in one compact instrument. For a relatively small additional capital cost above the single parameter analysers, the GL5 can measure Glucose, Lactate, Cholesterol, Urate and Alcohol.

### Order codes

**GL5** Sports Multi-Assay analyser  
**PGL5** Portable Sports Multi-Assay analyser

## 3 Analox GM7 Sports Multi-assay analyser

The GM7 Micro-Stat is a research analyser with a unique assay menu including Glucose, Lactate, Cholesterol, Alcohol, Acetoacetate, Urate, Urea, Pyruvate, Glutamine, Ammonia, Creatinine, 3-Hydroxybutyrate, Glycerol and Triglycerides.

### Order codes

**GM7** Micro-Stat Multi-Assay analyser  
**PGM7** Micro-Stat Multi-Assay portable analyser

### Consumables

**GMRD-102** Glucose Oxidase Reagent, 250ml, 360 cycles  
**GMRD-011** Glucose Standard 8.0mmol/L 30ml  
**GMRD-021** Uric Acid Reagent kit 70 cycles inc. 0.6mmol/L standard  
**GMRD-084** Cholesterol Reagent kit, 50 tests, including 5.2mmol/L standard  
**GMRD-090** Lactate II Reagent kit, 100 cycles  
**GMRD-092** Lactate II Reagent kit, 1000 cycles (4 x 250)  
**GMRD-093** Lactate II Reagent kit, 250 cycles  
**GMRD-100** Lactate II Reagent kit, 100 cycles with lysing buffer  
**GMRD-102** Lactate II Reagent kit 1000 cycles with lysing buffer  
**GMRD-103** Lactate II Reagent kit, 500 cycles with lysing buffer  
**GMRD-110** Ethanol standard, 100mg/dl, 4 x 1ml  
**GMRD-130** 3- Hydroxybutyrate Reagent kit 20-45 tests inc. standard  
**GMRD-140** Pyruvate Reagent kit 20-40 tests inc. standard  
**GMRD-150** Blood Glutamine Reagent kit, 50 (2x25) tests  
**GMRD-162** Ammonia Reagent kit 20-40 tests inc. standard  
**GMRD-170** Creatinine Reagent kit 40-80 tests inc. standard  
**GMRD-177** Glycerol Reagent kit, 140 analyser cycles, incl. standard  
**GMRD-180** Acetoacetate Reagent kit 20-40 tests inc. standard  
**GMRD-195** Triglycerides Reagent kit, 140 analyser cycles, including standard  
**GMRD-050** Record Cards for capillary tubes (40 cards)  
**GMRD-053** Glass Capillaries for whole-blood analysis (500)  
**GMRD-054** Glass Capillaries for intact whole blood analysis (1000)  
**GMRD-055** Closures for Capillaries, 100/pack  
**GMRD-056** Closures for Capillaries, 500/pack  
**GMRD-074** Lactate/Pyruvate quality control serum 4 x 0.5ml  
**GMRD-047** Lysing tubes for 'total' blood lactate, 0.2ml, 500/pack  
**GMRD-070** Lysing capillary/micro centrifuge tubes, 250/pack  
**GMRD-072** Lysing capillary/micro centrifuge tubes, 100/pack  
**GMRD-113** Alcohol reagent kit, 50ml (70 analyser cycles)



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# ACCUTREND

## 4 Accutrend Cholesterol and Glucose analyser

Fast, easy and reliable on-the-spot determination of blood glucose and cholesterol directly from capillary blood.

### Features

Prompt results - Glucose 12 seconds and Cholesterol 3 minutes  
Simple, handy coding with factory-provided bar code strip  
Test strip storage at room temperature (2 - 30 °C)  
Up to 50 glucose and 15 cholesterol values can be stored with date and time of measurement

### Order codes

**ACCUTREND** Cholesterol and Glucose analyser with starter kit  
**11418262165** Cholesterol reagent strips (25 tests)  
**11443054018** Glucose reagent strips (50 tests)  
**03307476001** SoftClix Pro multiple blood sampler  
**03307522001** SoftClix Pro lancets (200)

# LACTATE PRO

## 5 Lactate Pro Blood Test Meter

Measures lactate with only a small sample of blood (5µl).  
The test strip collects an exact amount of blood and results are obtained in approximately 60 seconds.  
Measuring range of 0.8-23.3 mmol/L.  
Automatic temperature compensation using a built-in sensor.

### Order codes

**LT-1710** Lactate Pro blood test meter  
**LACTATEPRO1** Lactate Pro reagent strips (box 25)  
**LACTATEPRO2** Multi Lancet II device  
**LACTATEPRO3** Lancets for Multi Lancet II (box 50)

For multiple subject use please order the SoftClix Pro automatic blood sampler.

# HEMOCUE

## 6 HemoCue Analysers

### Haemoglobin

Provides an opportunity for quick, simple and reliable quantitative Haemoglobin results. Any blood source (capillary, venous or arterial) can be used. Unbreakable, disposable cuvette collects the exact amount of blood and mixes the sample with the reagents automatically producing results in under a minute.

### Plasma/Low Haemoglobin

Designed for determination of low haemoglobin levels in plasma, serum or aqueous solutions and accurately measures low haemoglobin concentrations in the ranges of 0.03—3.00 g/dl, 0.3—30.0 g/l and 0.02—1.90 mmol/l.

### Glucose

HemoCue Glucose Systems are based on a glucose dehydrogenase method and consist of a small dedicated Analyser and a unique disposable microcuvette.

### Order codes

**HCU 12.01.11** B-Haemoglobin analyser with case  
**HCU 12.03.01** Plasma/Low Haemoglobin analyser  
**HCU 12.04.03** B-Glucose analyser  
**HCU 12.07.05** B-Glucose 201 analyser  
**HCU 20.03.04** Adult starter pack  
**HCU 11.01.16** B-Haemoglobin Microcuvettes (pack of 200)  
**HCU 11.07.08** B-Glucose 201 Microcuvettes (pack of 100)  
**HCU 11.04.04** B-Glucose Microcuvettes (pack of 100)  
**HCU 13.04.01** Safety Lancets (box of 200)  
**HCU 18.90.08** Carrying case  
**HCU 20.04.01** Battery eliminator 6v:350ma  
**HCU 13.90.01** Photometer cleaning spatulas (box of 5)

call today **0121 472 0361**  
or e-mail **info@cranlea.co.uk**



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## 1 YSI 1500L Portable Lactate Analyser

Capable of monitoring a subject in most test environments. YSI have put laboratory accuracy in a portable unit that can be carried anywhere. Produces results in just 60 seconds, with 150 spaces of memory capacity. Also has time, date stamp and test subject ID.

Supplied with Pipettor or Injector. (please specify when ordering)

### Order codes

- BEG 1500L** Portable Lactate analyser
- BEG 1501** 25ul Pipettor
- BEG 1502** 25ul Capillary Injector
- BEG 1504** Lactate Reagent starter kit



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## 2 YSI 2300 Glucose & Lactate Analyser

The only dedicated Glucose and Lactate analyser available. Makes precise measurements in whole blood or plasma. Measures Glucose in serum and Lactate in cerebrospinal fluid. Haematocrit correction option allows glucose results to be expressed as plasma, even when analysing whole blood.

### Order codes

- BEG 2300** Glucose and Lactate analyser
- BEG 2323** Glucose and Lactate starter kit
- BEG 1503** Preventative maintenance kit
- BEG 2710** Turntable 24 position automated sampler



2

## 3 YSI 030 Osmometer

Complete system for the determination of colloid-osmotic pressure (oncotic pressure) of biological liquids

High performance measuring cell.  
 Minimum sample volume (approx 100-150ml).  
 Measuring time <1 minute.  
 Automatic zero setting.  
 Switchable display (mm Hg, cm water column or k-Pascal).  
 Problem free calibration.  
 Automatic rinsing of the measuring cell after each measurement.

### Order codes

- GNC 31.00** YSI 030 Osmometer
- GNC 31.00 D** YSI 030 Osmometer with built in printer



3

# OSMOCHECK

## 4 Osmocheck

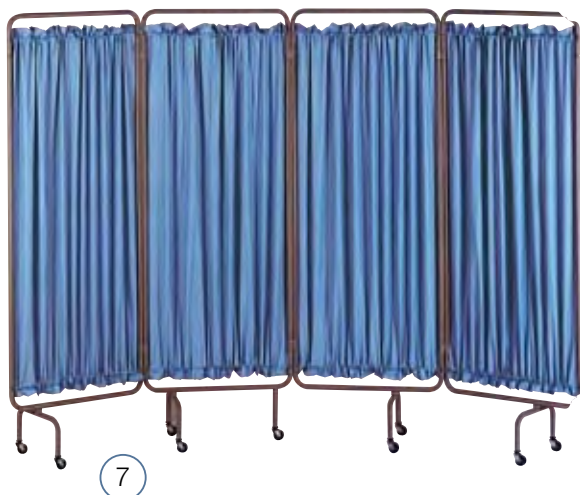
Osmocheck is a hand held Digital Refractometer calibrated from 0 to 1500mOsmols/kgH<sub>2</sub>O which equates to a specific gravity of 1.000 to 1.043 or a refractive index of 1.333 to 1.350. This relationship has been derived empirically from a selection of 70 different urine samples.

Readings  
 Early morning urine samples are recommended. Readings above 600m Osmols indicate that rehydration is advisable, and over 800m Osmols that it is essential.

**Order code PAL-OSMO**



4



## HAWKSLEY

### Haematocrit Centrifuges

#### 5 Mk IV Cube

- High speed drive system
- Programme timer
- Precision balanced motor
- Fabricated sheet metal casing
- Interlocking lid
- Imbalance detector
- Automatic braking
- Low noise
- Fast accurate haematocrit

#### 6 Mk V Pot

- High Speed drive system
- Precision balanced aluminium construction
- Steel lid
- Fused input socket
- Haematocrit rotor machined from forged aluminium billet
- High speed – 12,000 rpm
- Strong and durable

Both the Mk IV and Mk V come with a choice of rotors. Choose from: Multi Combo Rotor, 16 Place Combo Rotor, 20 Place Acetal Rotor, 8 Place Acetal Rotor or 24 Place Haematocrit Rotor. Please specify when ordering.

#### Order codes

- 01300-00** Haematocrit centrifuge Mk IV cube
- 01400-00** Haematocrit centrifuge Mk V pot
- 01985-00** Multi combo rotor
- 01986-00** 16 Place combo rotor
- 01881-00** 20 Place Acetal rotor 30 degree fixed angle
- 01890-00** 8 Place Acetal rotor closed fixed angle
- 01971-00** 24 Place Haematocrit rotor with lid
- 01502-00** Reader
- 01560-00** Rotoreader and Magnifier
- 01561-00** Magnifier
- 01562-00** Rotoreader
- 01503-00** Cristaseal (box of 10 trays)
- 01603-00** Capillary tubes heparinised 75mm (box 10 x 100)
- 01604-00** Capillary tubes plain 75mm (box 10 x 100)
- 01605-00** Capillary tubes heparinised 75mm (box 1000)
- 01606-00** Capillary tubes plain 75mm (box 1000)
- 01504-00** Rim seal gaskets (pack of 20)

## SCREENS

#### 7 Privacy Screens

2, 3 or 4 section chrome privacy screen. Removable vinyl curtains available in Blue, Green or White. Curtains supplied fitted. 50mm diameter free rolling castors. Folds flat when not in use. High stability with quality chrome finish.

#### Dimensions

- 2 Section 140cm overall length x 40cm x 180cm height
- 3 Section 210cm overall length x 40cm x 180cm height
- 4 Section 280cm overall length x 40cm x 180cm height

#### Order code

- H620** Privacy Screen - 2 section
- H63001** Privacy Screen - 3 section
- H63001/4** Privacy Screen - 4 section

Please specify colour when ordering.

# COUCHES

## 1 Portable Treatment Couch

A strong, lightweight, metal frame, with breathing hole and covered in strong upholstery.  
Complete with carrying handle.  
Optional carry bag available.  
Removable breathing hole insert.

### Dimensions

Length 180cm Width 61cm Height 75cm Weight 15kg

Available in Memphis Blue or Beige. Please specify when ordering.

### Order codes

**TAB 30** Portable treatment couch with breathing hole

**TAB 29** Carry bag



## 2 Examination Couch

One piece welded steel frame ensures total stability  
The adjustable head section has step-less angle adjustment from horizontal to approx 75°.  
Paper roll holder is fitted as standard and is suitable for paper rolls up to 51cm wide.  
Maximum Safe Working Load 190kg.

### Order codes

**EC/3** Examination couch

**EC/STEP** Optional step for examination couch



## 3 Hydraulic Variable Height Couches

These 2, 3 and 5 section couches are designed for examination and treatment and can also be used as a changing table.  
Designed to withstand sustained heavy use.  
Removable breathing hole insert.

### Dimensions

Length 189cm Width 65cm Height 46 – 95cm

Available in 9 colours - Nubian Black, Memphis Blue, Cornflower Blue, Waddy Beige, Spruce, Fern Ash, Lomond and Islay

Please specify when ordering.

### Order codes

**PP105** Hydraulic couch - 2 section

**PP125** Hydraulic couch - 3 section

**PP120A** Hydraulic couch - 5 section



## 4 Electric Variable Height Couches

Electric couches designed for manipulation and all general treatment techniques.

They are extremely strong and are designed to withstand sustained heavy use.

Breathing hole with removable insert.

### Dimensions

Length 189cm Width 65cm Height 46 – 95cm

Available in 9 colours - Nubian Black, Memphis Blue, Cornflower Blue, Waddy Beige, Spruce, Fern Ash, Lomond and Islay.

Please specify when ordering.

### Order codes

**PP115** Electric couch - 2 section

**PP135** Electric couch - 3 section

**PP120B** Electric couch - 5 section





temperature & pressure monitoring

For both static and ambulatory measurement of temperature and pressure we offer a full range of equipment to cover all your needs.

# BAROMETERS

## 1 Direct Reading Mercury Barometer

Barometer with a silvered metal scale, mounted on a polished hardwood board with spirit thermometer and separate Fahrenheit and Celsius scales.

Range 585 – 790mmHg

**Order code** Type 66

## 2 Fortin Mercury Barometers

### Type 52

Black stove enamelled brass frame, with silvered scales, chromium plated fittings and mercury thermometer. Mounted on a hardwood board.

Range 650 – 825mmHg.

### Type 54

Similar to Type 52, but with smaller bore tube.

Range 670 – 825mmHg.

### Type 56

With engraved silvered scales on a square brass frame.

Range 650 – 825mmHg.

Note - All of the Fortin and Direct Reading barometers can be supplied with any two scales (mbar, mmHg or inches Hg). Please specify when ordering.

**Due to the delicate nature and mercury content of the Fortin and Direct Reading Barometers, these products are subject to special delivery charges.**

### Order codes

**Type 52** Fortin Barometer

**Type 54** Fortin Barometer

**Type 56** Fortin Barometer

## 3 Barometer-Hygrometer-Thermometer

- Barometer with easy to read weather forecasting symbols
- Current Barometric pressure reading (mBar)
- Measures indoor/outdoor temperature and humidity
- Temperature, pressure & humidity trend indicators
- Comfort level indicators
- Max/Min temperature and humidity memory
- Clock with alarm and calendar
- Frost alarm
- HiGlo backlight

**Order code** BAA913HG

## 4 Precision Hair Hygrometer

Precision Hair Hygrometer with a well ventilated chromium plated case, utilising a specially treated hair element.

Operating range 0 to 100% R.H.

Accuracy +/- 3% R.H.

Graduations 1% R.H.

Case diameter 100mm

**Order code** HYG111

## 5 Whirling Hygrometer

Compact Whirling Hygrometer. Pocket sized black two piece hinged body that extends to form the instrument for instant use. Calculator scales are printed on case for slide rule simplicity. Complete with wick.

**Order code** 13/600/2 NOT ILLUSTRATED





6

### 6 Gas Monitoring Thermometer

With the probe fitted to the inlet port of a dry gas meter this thermometer gives the temperature of expired gas sample and ambient room temperature.

- Temperature range  
Ambient -20 to +70°C Probe -50 to +70°C
- Detachable sensing probe
- Max/Min temperature memory
- Dual display
- Alarm settings

**Order code 810-080**

### 7 Digital Clinical Thermometer

- Compact, accurate, reliable thermometer with LCD display
- Available in Celsius only
- Audible alert when reading complete
- 32°C to 42°C temperature range
- Accurate to within +/- 0.1°C from 34°C to 40°C
- Easy to read LCD display
- Includes plastic storage case and full instructions

**Order code 96.21.000**

### 8 Infrared Ear Thermometer

- Infrared ear thermometer giving safe, fast and accurate readings
- Wave-guide for on-target temperature measurement
- 1 second measurement
- Simple to use, just press start for immediate reading
- Memory button recalls the last 9 readings taken
- Selectable °C or °F
- Temperature range 34°C to 42.2°C (93.2°F to 108°F)
- Lithium Ion battery gives 5000 readings
- Set includes battery and 20 protective tip covers

#### Order codes

**96.25.000B** Infrared ear thermometer with memory and °C/°F display

**96.25.100** Protective tip covers (pack 40)



7



8

## 1 CorTemp 2000 Ambulatory Data Recorder

The CorTemp ambulatory data recorder wirelessly picks up the signal from the CorTemp core body temperature sensor, converts the sensor's signal into digital format for display and storage.

Data can be viewed in real-time or downloaded later for analysis in Excel spreadsheet format or through CorTrack data-graphing software. The unit can be worn by the person for continuous monitoring or can be used to take random, manual readings.

### Core Body Temperature Sensors

Monitors core body temperature continuously as it travels through the digestive system. While inside the gastrointestinal tract, the internal crystal sensor vibrates at a frequency relative to the temperature of the substance (body) surrounding it, producing a magnetic flux.

The sensor wirelessly transmits the core body temperature signal harmlessly through the body to the CorTemp Ambulatory Data Recorder worn on the outside of the body.

### Order codes

<b>HT150001</b>	Data recorder
<b>HT150016</b>	Data recorder with heart rate upgrade
<b>HT150002</b>	Core body temperature sensors

### Options

#### Data Recorder Alarm

Detects high and low temperature and heart rate settings in the CorTemp Data Recorder. The LED illuminates and the unit emits an intermittent audio signal when subject's temperature falls below or rises above set parameters.

Connects to the serial port of the CorTemp Data Recorder.

#### RF Remote Unit for Data Recorder

Companion to the CorTemp Data Recorder, this RF transceiver, connects into the serial port of the data recorder enabling the recorder to transmit its data in real-time to a remote central monitoring station.

Transmission range - 100m.

#### RF Central Base Station

The RF Central Base Station is capable of receiving signals from up to 20 CorTemp data recorders.

Interfaces with conventional PC platforms.

System includes CorTrack basic graphing/trending software, PC interface cable and power supply.

#### Digital HR/Temp to Analogue Converter

Converts temperature and heart rate digital signal output from the CorTemp Data Recorder to a continuous analogue signal.

May be used with most data acquisition systems.

Choice of Fahrenheit or Celsius temperature settings.

Output voltage between 0-5 volts.

System includes two BNC connector style cables, 4m data cable and power supply.

#### RS232 PC Serial Cable

Links the CorTemp Data Recorder to the serial port of a PC. Length - 1m.

### Order codes

<b>HT150008</b>	Data recorder alarm
<b>HT150009</b>	RF remote unit for data recorder
<b>HT150010</b>	RF central base station
<b>HT150013</b>	Digital HR/temp to analogue converter
<b>HT340004</b>	RS232 PC serial cable



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2

## 2 Digital 5 Channel Thermometer

This versatile, highly accurate instrument is perfect for a variety of field or laboratory applications.

- °C or °F temperature display
- User-defined sequential probe scanning
- User-selectable single probe display
- Temperature display updated 5 times per second
- Min/Max temperature storage and display
- Multi-probe average temperature measurement
- Display hold function freezes displayed data
- Non-volatile storage of instrument setup
- Optional analogue output
- Optional battery pack

Supplied without probes. Please specify probes when ordering

### Order codes

<b>5831</b>	5 channel LCD thermometer
<b>0210401</b>	Rectal/Oesophageal adult probe
<b>0210404</b>	Skin/Surface adult probe
<b>0210403</b>	Skin/Surface paediatric probe





From stopwatches through to activity monitors we offer a comprehensive range of all timing and activity monitoring equipment.

# FASTIME

## 1 Fastime 0 Stopwatch

An entry level basic stopwatch.  
Good for non critical single event timing and sports games such as football and events where cumulative split-times are required.

**Order code Fast 0**

## 2 Fastime 01 Stopwatch

A basic triple mode single display stopwatch with battery activation function. Available in 7 colours - Black, Blue, Red, Yellow, White, Aqua and Green - please specify when ordering.

**Order code Fast 01**

## 3 Fastime 1 Stopwatch

A triple mode single display stopwatch with extra large (12.4mm) digits in a large, vibrant yellow case.

**Order code Fast 1**

## 4 Fastime 2 Stopwatch

A professional quality triple mode single display stopwatch with extra large (12.4mm) digits.  
Good for rugged single event timing and sports games such as football and events where cumulative split-times are required.  
Suitable for professional use.

**Order code Fast 2**

## 5 Fastime 3 Stopwatch

Simple to use professional quality, large display (10mm), basic function stopwatch. Ideal for rugged single event timing and sports games such as football.

**Order code Fast 3**

## 6 Fastime 4 Large Display Stopwatch

Simple to use professional quality, large display (10mm), split-time function stopwatch.  
Ideal for circuit racing of any kind including karting, bike racing, track and field events.

**Order code Fast 4**

## 7 Fastime 5 Dual Display Stopwatch

Simple to use, professional quality, dual display, 8 memory, split-time function stopwatch.  
Ideal for limited (8) lap circuit racing of any kind including track and field events, bike racing and training sessions.

**Order code Fast 5**

## 8 Fastime 6 Triple Display Stopwatch

Professional level, multifunction stopwatch with 30 lap memory and triple display.

**Order code Fast 6**



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### 9 **Fastime 7 Triple Display Stopwatch**

Professional level multi-function stopwatch with 100 lap memory and triple display.

**Order code Fast 7**

### 10 **Fastime 8 Triple Display Stopwatch**

Professional level multi-function stopwatch with 300 lap memory and triple display.

**Order code Fast 8**

### 11 **Fastime 9 Triple Display Stopwatch**

Professional level multi-function stopwatch with 100 lap memory, stroke rate and triple display.

**Order code Fast 9**

### 12 **Fastime 10 Triple Display Stopwatch**

The perfect stopwatch for motor sport and circuit racing.

**Order codes**

**Fast 10** Fastime 100 lap memory and fastest lap stopwatch

**Fast 799M** Stopwatch holder and clipboard

**Fast 799TBH** Stopwatch holder

### 13 **Fastime 11 Stopwatch**

Multi-function single display stopwatch ideal for use where 1/100th second measurement is not critical.

Jumbo stopwatch with clip, wristband and lanyard.

**Order code Fast 11**

### 14 **Fastime 14 Stopwatch**

Professional triple display 500 lap memory stopwatch.

Unique data recall mode which enables user to store batches of split-times as segments in memory.

**Order code Fast 14**

### 15 **Fastime 15 Stopwatch**

A dual display multi-function stopwatch with unique time of day and pre-start functions.

Rally watch with clip, wristband and lanyard.

**Order code Fast 15**

### 16 **Fastime 19 Stopwatch**

This watch is worn on the fingers and can be operated by the user whilst carrying out an activity or competing. Water resistant.

**Order code Fast 19**

### 1 Fastime DB1 Stopwatch

Simple to use basic function stopwatch. Dome button waterproof stopwatch.

**Order code DB1**

### 2 Fastime DB2 Stopwatch

Simple to use lap and cumulative split-time function stopwatch.

**Order code DB2**

### 3 Fastime DB3 Triple Display Stopwatch

Multifunction stopwatch with 30 lap memory, 10 memory pacer and triple display.

**Order code DB3**

### 4 Fastime Euro 2 Dual Display Stopwatch

Simple to use dual display with 8 memory split time function.

**Order code Euro 2**

### 5 Fastime Euro 3 Triple Display Stopwatch

Multifunction stopwatch with 30 lap memory and triple display.

**Order code Euro 3**

### 6 Fastime Euro 4 Triple Display Stopwatch

Multifunction stopwatch with 100 lap memory and triple display.

**Order Code Euro 4**

### 7 C5000 Laboratory Timer

Easy to set up and use table top timer. Extra large 25mm digits. Ideal for games event timing or rally event service timing.

**Order code C5000**

### 8 Multichron 4 Competitor Stopwatch

A unique multi-display stopwatch, which enables you to time up to four competitors simultaneously.

**Order codes**

**AIM1Y** Four competitor stopwatch - Yellow

**AIM1B** Four competitor stopwatch - Black

### 9 Seiko Hand Held Stopwatch with Printer

Hand held stopwatch with built-in printer and 300 lap memory.

**Order code S23247J**



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## BROWER

### 10 Brower SpeedTrap I

This wired timing system allows athletes to sprint up to 45m. Results instantly available on stopwatch mounted finish beam. Inexpensive and simple to operate, the system consists of starting touchpad linked to finish beam and 45m cable and spool.

Includes - beam, tripod, Accusplit clock, cable spool, starting touchpad and bag.

#### Order code

**BRO-SPEED1** SpeedTrap - wired sprint timing package

#### Options

**BRO-WS1** Extra cable spool - 45m

#### Spares

**BRO-TP3** Replacement tripod 100cm

**BRO-ACL5** Replacement Accusplit clock



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### 11 Brower SpeedTrap II

The wireless sprint system is easily portable for use both indoor and outdoor.

Timer gives freedom of mobility with a range of up to 250m. Quick set up and easy to use. Stores up to 126 times with up to 8 split interval times per athlete. Individual identification numbers can also be entered to increase organisation. Times can be reviewed and the memory stored even when the unit is turned off.

Includes - coach monitor, start unit with touchpad and microphone, beam set, 2 x 100cm tripods, 1 x 10cm tripod, 3 x antenna and carry bag.

**Order code BRO-3265A**

#### Brower SpeedTrap II Options

##### Beam Set

Add up to 8 intermediate beams to the wireless timing system to record split interval and acceleration times. The intermediate beams are supplied with antenna and tripods.

##### Track Display Unit

A great addition to the wireless sprint system. The display can be easily set up at the end of the course so that athletes can have instant feedback on their results. It has a range of 250m with 10cm high digits which can be seen from a distance of over 30m.

##### USB Interface

The USB Interface enables times from the monitor to be downloaded to a PC. Times can be printed out or imported into a spreadsheet programme for further manipulation.

#### Options

**BRO-3264A** Beam set (8 max)  
**BRO- T08** Track display unit  
**BRO- TS3** USB Interface  
**BRO- TP1** Large touchpad (60 x 15cm)  
**BRO- HP82240B** IR Printer

#### Spares

**BRO-TP2** Replacement touchpad  
**BRO-TP3** Replacement tripod 100cm  
**BRO-TP4** Replacement tripod 10cm  
**BRO- CML5** Coach monitor  
**BRO-TS1** Replacement antenna  
**BRO-TS4** Replacement carry bag

#### System Options



Intermediate Beam



Track Display Unit



USB Interface



## CRANLEA

### 1 Multi-Choice Reaction Timer

A portable, simple to operate, battery powered, reaction timer that features a hand held unit with LCD and 1/100th second timer. Response unit has four different lights - Red, Blue, Green and White, buzzer and five separate response button switches.

**Order code CRA-MCR**

### 2 Digital Metronome DM11

Slim pocket size design with LCD display and 30 - 250 beats per minute.

**Order code DM11**

### Digital Metronome DM70

With adjustable volume, clear sound, variable beat, rhythm and 12 reference tones.

NOT ILLUSTRATED

**Order code DM70**

### 3 T130 Chrome Mechanical Hand Held Tally Counter

Metal hand held tally counter, counts up to 9,999.

**Order code T130**

## FASTIME

### 4 Fastime Step Counter

Simple to use basic step counter with up to 99,999 steps.

**Order code Fast Step1**

### 5 Fastime Pedometer

Simple to use basic pedometer with option to show distance covered in miles or kilometers.

Includes - step counter with up to 99,999 steps displayed and calorie burner.

**Order code Fast Ped1**



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## CALTRAC

### 6 Caltrac Calorie Counter

Sophisticated accelerometer for determining calorie expenditure. Works equally well during sleep, rest and light/intensive exercise. Ideal for research work or personal monitoring. Supplied complete with full user instructions and video.

#### Order codes

<b>Caltrac</b>	Calorie counter with manuals and video
<b>Calbelt</b>	Caltrac belt and pouch
<b>Calpouch</b>	Caltrac pouch
<b>Calclip2</b>	Caltrac belt clip - new style



6

## YAMAX

### 7 Yamax Digi-Walker Classic

Counts steps up to 99,999 whilst walking or jogging.

**Order code SW-200**



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### 8 Yamax Digi-Timekeeper

Counts steps up to 99,999 whilst walking or jogging  
Calculates distance walked or jogged.  
Stop-watch from 1 second to 10 hours and displays time of day.  
Set average stride length in 1 cm increments.

**Order code SW-650**



8

### 9 Yamax Digi-Walker Professional

Counts steps up to 99,999 whilst walking or jogging.  
Calculates distance walked or jogged.  
Calculates calories used from 0.01kcal to 9,999.9kcal.  
Set average stride length in 1 cm increments.

**Order code SW-700**



9

## ACTIVPAL

### 10 activPAL Activity Tracking System

Using proprietary algorithms (Intelligent Activity Classification), the activPAL classifies individual's free living activity into periods spent sitting, standing and walking. This information can be used to estimate daily energy expenditure. Changes in the free living activity profile can be tracked against taking medication or treatment regimes.

Worn either discreetly on the thigh using a medical grade adhesive dressing or incorporated into clothing using a neoprene cuff.

#### Order codes

<b>PAL6PRO</b>	ActivPAL tracking system
<b>PAL6USBFP</b>	Single device package with software license and cable
<b>ACTIVPAL1</b>	Software licence (1 licence per 5 ActivPAL units)
<b>ACTIVPAL2</b>	USB interface cable
<b>ACTIVPAL3</b>	Neoprene thigh strap



10

# RT3



## RT3 Tri-axial Activity Monitor

Easy to use activity monitor and recording device. Designed as a complete activity recording and measurement system for clinical and research applications. The RT3 is lightweight and worn on the waist. Used with software and docking station displaying performance graphs and activity

unit data that can be used to assess and track subjects in ongoing and comparative studies.

Measures activity units, METs and Kcals.

### Order codes

<b>RT3</b>	Tri-axial activity monitor
<b>RT3 SYSTEM</b>	Monitor with docking station, cable & software
<b>RT3 INTERFACE</b>	Docking station and cable
<b>RT3 HOLSTER</b>	Safety pouch

# TESTING PACKAGES

## Cranlea Wingate and Sprint Testing Package

Designed to turn a standard Monark 874E into a powerful sprint testing ergometer.

Simple to fit ergometer interface and cables, additional weights and Windows based software which increases adaptation possibilities of anaerobic tests.

Test times can vary from 5 - 300 seconds with intervals of 5 seconds, but still allows standard Wingate test of 30 seconds to be performed.

Includes - printable reports, easy to perform multiple sprint tests, correction for moment of inertia with accurate results.

**Order code SP6**

## MultiStage Fitness Test

A reliable and easy to use fitness test used in talent identification programmes worldwide. Schools, clubs, emergency services and armed forces use it to determine fitness levels.

Supplied with instructions and a table explaining results.

Place two markers 20m apart, performers run between markers while the bleep intervals become progressively shorter.

### Order codes

<b>AA1CD</b>	Multistage fitness test CD
<b>AA1</b>	Multistage fitness test cassette

## Abdominal Curl Conditioning Test

Condition and tone of abdominal muscles is a vital component of fitness within a variety of sports.

This package includes a booklet which describes the function and importance of the abdominal muscles and suggests useful exercises.

A simple field test can be performed to assess the condition of these muscle groups.

### Order codes

<b>AA2CD</b>	Abdominal curl conditioning test CD
<b>AA2</b>	Abdominal curl conditioning test cassette



Our philosophy  
is to offer  
the very best  
products available  
from the world's  
top manufacturers  
to the medical  
and sports  
science market.

To maximise  
the potential of  
these products  
we recommend  
that you consider  
some of the  
specialist training  
and calibration  
services we offer.



training and calibration

For more information  
on training and  
calibration call

**+44 (0) 121 472 0361**

or e-mail  
[info@cranlea.co.uk](mailto:info@cranlea.co.uk)



### **Application Training** (on Site)

Many of our products feature extensive operational options. In the fast moving world of high technology and software development our experienced training team offer cost effective solutions for all your staff's needs.

Whether training is required for one person or a group of people, Cranlea have a training package to suit every situation.

For Staff training costs please contact us

### **Equipment Servicing**

We offer a variety of service options including routine, preventative maintenance and fully inclusive extended warranty packages.

For further details on any of these options please contact our Service Team

### **Equipment Calibration**

We understand that a lot of research work is done using cycle ergometers, treadmills and metabolic systems.

Although these products are manufactured to the highest standards they still require periodic checks and calibration.

The equipment required to carry out such tests is often expensive and in most situations not cost effective to purchase outright.

Cranlea's Service department have all the necessary calibration equipment to take care of this for you, leaving you confident that all your research is being conducted with accurate technology.

### **Ergometer Calibration**

Using the latest LODE portable calibrator we offer full calibrations on all models of ergometers, both mechanical and electronic. The calibration can be performed within a range of 30 – 1000 watt.

### **Treadmill Calibration**

Using the latest equipment for the calibration of speed, inclination, distance and heart rate we offer a full calibration service on all treadmills.

### **Calibration per unit**

£150 + expenses + VAT

### **Calibration of 3 or more units**

£100 + expenses + VAT per unit

### **Metabolic Calibration**

There are many reasons why stress testing systems can give inaccurate measurements. Such as blocked sample lines, faulty gas analysers, faulty volume transducers etc.

Our new dynamic Metabolic Calibration system can precisely test your system at varying ventilation and flow rates, together with precise values of VO<sub>2</sub>, VCO<sub>2</sub> and respiratory exchange ratio.

### **Calibration per unit**

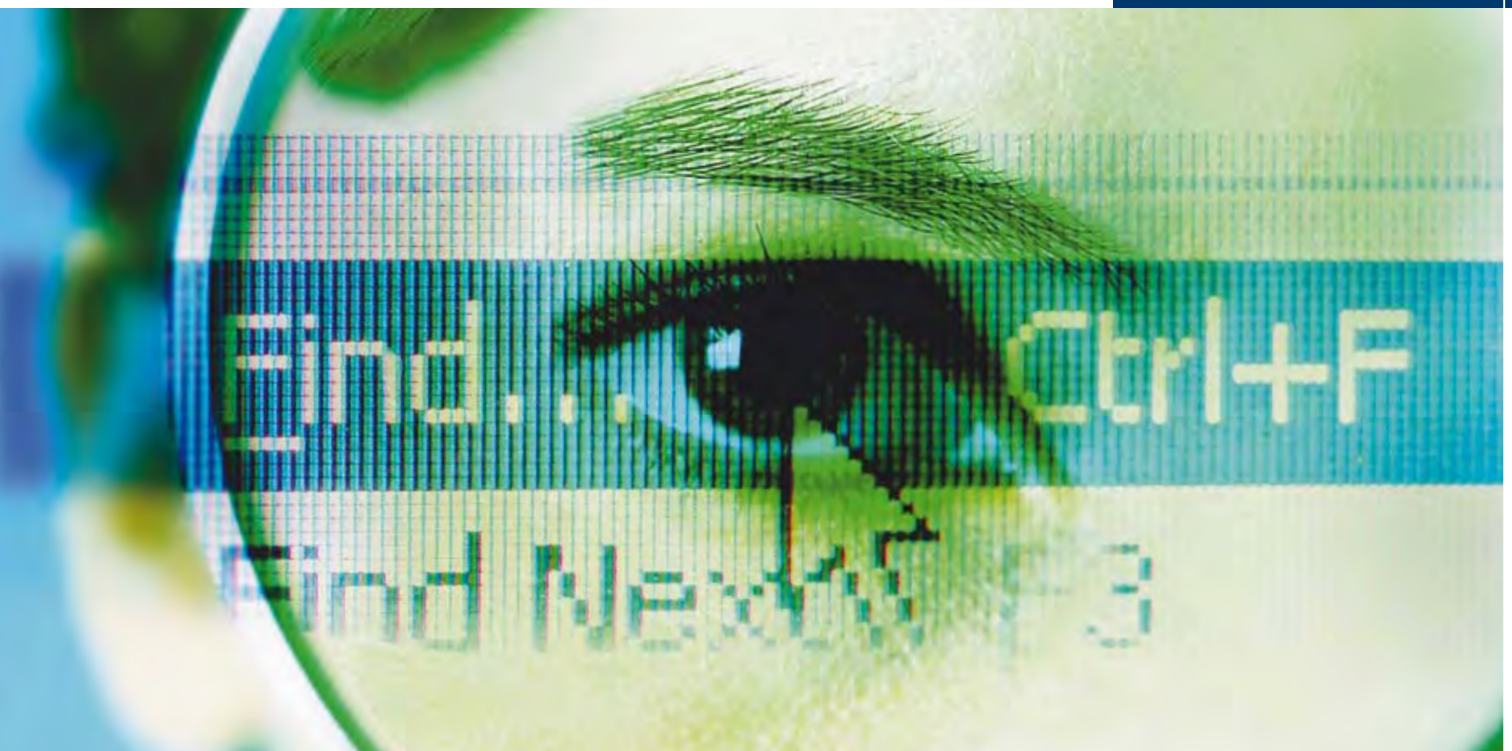
£200 + expenses + VAT

**All of the above Ergometer and Metabolic Calibrations include a FULL Calibration Certificate.**

## customer orientation

For those of you who know just what you are looking for this index provides quick access to all Cranlea products.

Even for those of you who are just flicking it is a usefull tool for seeing our full range at a glance.



in-depth index

For further information  
or for products you  
can't find please call  
our sales team on

**+44 (0) 121 472 0361**

or e-mail  
[info@cranlea.co.uk](mailto:info@cranlea.co.uk)

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**For anything you want but can't find here please call our sales team for more information on 0121 472 0361.**



## Notes



## Sales

All sales are subject to these terms and conditions and no other shall apply.

## Prices

All prices are subject to alteration without prior notice.

Goods will be invoiced at the price ruling at the time of despatch.

Quotations will be valid for a period of thirty days unless otherwise stated.

## VAT

All prices exclude VAT, which is chargeable at the prevailing rate at the time of order.

## Carriage

Carriage and packing charges will be payable on all orders unless otherwise agreed.

## Product Specification

Details are correct at the time of going to print and may be altered without notice in accordance with manufacturer's specifications.

## Title of goods

All goods remain the property of Cranlea and Company until such time that payment as per the invoice has been made in full.

## Account Payment Terms

Unless otherwise agreed, the terms of payment for goods shall be net monthly account, due and payable not later than the twentieth day of the month following the date of invoice.

## Credit Card Payment

Payment by credit card for goods exceeding the value of £500.00 will be subject to a 5% surcharge on the total order.

## Insurance and Risk

Upon delivery, the risk inherent in the goods shall pass to the customer. Cranlea and Company accept no liability for misuse or incorrect use of goods.

## Claims

All goods should be inspected for damage and shortage upon delivery and any claim for such must be reported within three days of receipt.

Cranlea and Company reserve the right to inspect and investigate the complaint before any acceptance of liability is made.

## Warranty

Cranlea guarantees to replace or repair any equipment that is faulty due to manufacturers defects for a period of twelve months from the date of invoice. No liability will be accepted for misuse or incorrect use of goods.

## Return of Goods

No goods will be accepted for credit without prior agreement.

Goods incorrectly ordered may be subject to a handling and carriage charge.



**CRANLEA**

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