

Mobile human monitoring

✓ Better Data

✓ Better Decisions

✓ Better Performance

The Equivital Training and Research (TnR) Product Range

June 2014 - September 2014

The Equivital™ - TnR Product Range

Equivital™ TnR Products combine world class human performance monitoring capability with robust clinical grade data quality.

TnR Products fall into three categories:



Sense & Transmit



View & Analyse



Key Use Cases













Military

First Responder

Sport

Healthcare

Pharmaceutical





Activity and Energy **Expenditure Research**



Thermoregulatory Monitoring





Human Performance Research

Key Benefits

- End to end solution for physiological sensing, data management and data visualisation
- Pre synchronised and time stamped multiparameter data outputs save valuable time in data analysis
- Access to raw ECG data for independent analysis of RR intervals
- Easy check for real time data quality to ensure best results for your research
- Increase subject compliance by measuring thermoregulatory, cardiorespiratory and energy expenditure data using just 1 lightweight device
- Flexible configuration with accessory sensors to allow for use in multiple research studies
- System supports multiple ingestible core temperature capsule measurements for improved mobile thermoregulatory monitoring
- Streamlined, data management solution ensuring higher controls for data quality available for high volume or multi site



SENSE & TRANSMIT: Equivital™ EQ02 LifeMonitor

The EquivitalTM LifeMonitor is a multi-parameter body worn sensor for logging and transmitting, in real time, mobile human performance data.

EQ02 Sensor Belt

Product code: EQ-02-B1-1-S(SIZE), EQ-02-B2-1-S(SIZE)

The EQ02 Sensor belt features a system of sensors and electrodes embedded in novel textiles. It connects with the Sensor Electronics Module (SEM) to provide mobile monitoring capability.

Designed to be comfortable when worn for extended periods, the EQ02 Sensor belt enables high quality measurement of physiology even when the wearer is engaged in strenuous physical activity and rapid movement.

Available sizes:

1-9 (Circumference at xiphersternum: 29 – 47 in / 74 – 119 cm).

Reference:

LifeMonitor Item 1.1 within price list.





EQ02 SEM

Product code: EQ-02-SEM-007

The EQ02 SEM is the world's leading multi paramete physiological monitoring device that senses, records, monitors and processes data captured from the human and is able to transmit this over a wireless or wired interface. Multiple parameters are measured including high resolution tri axis accelerometry (256Hz), ingestible core temperature pill and time synchronised photoplethysmography.

The EQ02 SEM and Sensor belt are IP67 certified and transmit data over Bluetooth. In addition the SEM can connect with other Bluetooth and wired sensors to receive data in and synchronise accurately with its native data stream.

Reference:

LifeMonitor Item 2 within price list.



Light weight and optimised for long wear comfort Up to 48hrs battery life in full disclosure logging mode √ 8GB memory gives up to 50 days of data logging¹

EquivitalTM LifeMonitor Measurements & Alerts







Tri Axis Acceleromiter

Energy Expenditure &



Customizeable Alarms & Alerts



Internal Storage



Core Temperature Capsule

Multi Site Skin Temperature

equi⊽ital



Compatible Ancillary Sensor



^{*} This model of the EQ02 Sensor belt features an external connector for wired ancillary sensors or enables connection to an additional external power pack.

VIEW & ANALYSE: Software

Data can be viewed in real time or retrospectively using EquivitalTM viewing and analysis software tools.

The TnR Software range includes Equivital manager, a data management and conguration tool, and the eqView Software suite for web, local and mobile access to subject data.





Product code: EQ-SW-12

A PC application used for configuration of SEM's and Equivital™ data management.

Reference: Software Item 5.1



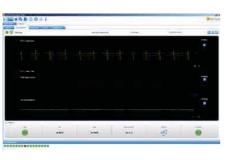


Product code: EQ-SW-EQV-P-1

A local or networked PC application used for monitoring subjects, viewing live data, trends and replaying logged data.

Reference: Software Item 5.2









Product code: EQ-SW-EQV-MOB-A-1, EQ-SW-EQV-MOB-R-1

A mobile application used for viewing live data from a subject locally. eqView Mobile can also send data via GPRS, SMS or WI-FI to Equivital web-based Applications

(Currently versions for Android enabled phones).

Reference: Software Item 5.4



The Equivital™ LifeMonitor is a multi-parameter body worn sensor for logging and transmitting, in real time,

mobile human performance data.



Product code: EQ-SW-ACT-LIC-01

The Activity Module is an analysis and reporting module that works with Equivital heart rate, breathing rate and accelerometer data to provide energy expenditure and activity analytics.

The Activity module supports subject specific attributes and follows a simple "Calibrate.Measure.Analyze" sequence of events.







Product code: EQ-SW-OSK-01

The Equivital Qiosk is a streamlined subject, device and data management software tool which is configured specifically for your study needs.

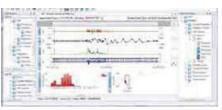
Especially suited to studies with larger volumes of subjects or data, multiple sites or multiple site data management staff, Qiosk provides a simplified interface to ensure data security and integrity for clinical research.











Product code: EQ-SW-VS-01

VivoSense^R for Equivital^R is an intuitive, fully customisable visualisation and discovery tool that enhances post-processing of data.

Includes: VivoSense^R for Equivital™ (import module)

Reference: Software Item 6

Product code: EQ-SW-VS-HRV-01

Advanced VivoSense^R module provides support for users wanting to carry out

HRV analysis

Reference: Software Item 6.1

Product code: EQ-SW-VS-SAM01

VivoSenseR Sync and Merge Module aligns data from the SEM with

different data streams and sources and synchronizes them

Reference: Software Item 6.3

EquivitalTM - Software Developers Kits



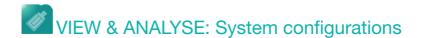
Software Developers Kit

Product code: EQ-SDK-URIN-0 & EQ-SDK-URIJ-01

Equivital has a range of simple to use SDKs to suit applications across various operating systems.

The software developers kits are designed to allow developers of all capabilities the ability to embed Equivital data into their own applications without expert knowledge or training. The EQ02 LifeMonitor SDK is a simple and cost effective way to integrate EQ02 LifeMonitor data into third party systems. Using simple, standard programming techniques any data recorded by the SEM can be integrated into any .NET or Java application with as few as four lines of code, including streamed ECG, accelerometer, breathing and PPG waveforms. The SDK can interpret data from live SEMs and from recorded SEM files or at high speed for analysis and post processing. Note: an SDK license is required

Equivital works closely with equivital partner program members using SDKs to help develop new application solutions. This ensures both parties benefit from each others support and expertise.



EQ02 Starter Kit system configuration for retrospective data analysis Code (EQ02-KIT-SU-2)





PC operating Equivital Manager software for data export and device configuration

Configurations for live data to local PC with additional sensors





eqView Pro can be configured for up to 18 Subjects employing an Equivital™ Hub and PC operating eqView Pro software (in Partial Disclosure Mode)





ACCESSORIES: EquivitalTM - LifeMonitor Accessories



VitalSense® Core Temperature Capsule Product code: EQ-ACC-023

Ingestible core temperature capsule measure score body temperature and transmits readings to the SEM in real

Reference: Accessories 3.5



VEQ Core Temperature Capsule & Dermal Patch Activator

Product code: EQ-ACC-029

Simply activates the core temperature capsule and the dermal temperature patch. (Requires the use of a radio receiver or SEM to confirm capsule or path activation).

Reference: Accessories 3.6



VitalSense® Dermal Patch Product code: EQ-ACC-048

Self adhesive dermal temperature patch measures skin temperature and

Reference: Accessories 3.4



Nonin Xpod®

Product code: EQ-ACC-042*

Low power connection to SEM for various compatible Nonin® sensor probes. (Other sensors are not supplied by Equivital™).

Reference: Accessories 3.2



EQ-GSR (Galvanic Skin Response Sensor)

Product code: EQ-ACC-034*

Wrist mounted sensor for measuremen of galvanic skin response.

Reference: Accessories 3.7



Nonin iPod® Sp0

Product code: EQ-ACC-041

Oxygen saturation probe with SEM connector and finger clip.

Reference: Accessories 3.3



EquivitalTM Hub

Product code: EQ-ACC-032-V2 (ROW)

The Equivital™ Hub is a Bluetooth access point enabling communication with up to 18 SEMs1 from a PC or LAN in real time. Networkable via WiFi or Ethernet connection. Operates with eqView professional software.

Reference: Communications 4



EquivitalTM Bluetooth Dongle

Product code: EQ-ACC-BTA-2

The first easy connection Equivital™ dongle which enables fast communication of 2 SEMs in full disclosure and up to 6 SEMs in partial disclosure directly to a PC in real time. Up to 100m range².

Reference: Communications 4.1



EQ02 M-Dock

Product code: EQ-ACC-MD-1

Enables simultaneous charging and 2-way data transfer communication with up to six SEM's.

5 M-Docks can be daisy chained to support 30 concurrent connections via two USB ports.

Reference: Accessories Item 3 within

price list.



EQ02 SEM Lead

Product code: EQ-ACC-SL-1

Enables simultaneous charging and 2-way data transfer with a single SEM.

Reference: Accessories 3.1



External Battery Pack

Product code: EQ-ACC-BAT-1

Provides up to 5 times operational life*

Reference: Accessories 3.7







Omron Blood Pressure 708BT(EU)

Product code: EQ-ACC-052-BT

The Bluetooth blood pressure cuff measures subject blood pressure data, can be pre paired with a single EQ02 LifeMonitor and can send data to store or be transmitted on from the LifeMonitor.



WristOx2 Bluetooth Oxygen Saturation (3150)

Product code: EQ-ACC-050-BT

The Bluetooth, wrist worn oxygen saturation monitor measures oxygen saturation, can be pre-paired with a single EQ02 LifeMonitor and can send data to store or be transmitted on from the LifeMonitor

^{*} Requires EQ02 (B2) Sensor Belt - Product Code: EQ-02-B2-S(SIZE) ¹ Dependent on environment and number of SEM's in full or partial disclosure. ²Subject to environment.

Further information

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