

Intelesens

RESPONSIVE HEALTHCARE



improving the quality of
care and delivering cost
advantages and benefits
for healthcare providers

intelesens

Designing medical devices and sensors, for own products and large medical OEMs since 2001.

Our technology platforms, combined with our expertise in sensor design and build, form the ideal basis on which to rapidly develop innovative wireless products.

For more information on our products and services visit www.intelesens.com

sensors

Designed and manufactured for use with in-house devices and also for OEM products.

The Intelesens team are world-renowned experts in vital sign sensors & electrodes. Skills include:

- design to remove motion artefacts and improve signal-to-noise performance
- replacing slow-to-fit group electrodes with a single patch array electrode
- innovative sensing eg. skin surface temp.

design

Intelesens is acknowledged as the world leader in developing new types of medical sensors & electrodes, often in conjunction with a device.

The holistic approach encompassing both sensor and electronics often produces much higher quality signals.

As part of the design service, full CE and FDA approval can be obtained.

build

Intelesens has a flexible and efficient production facility for medical sensors and electrodes.

Manufacturing medical devices in-house for pre-production runs and series production of defibrillation electrodes, Intelesens uses an outsourcing model with fully monitored quality control for higher volumes.

Intelesens is certified to ISO 9001 & ISO 13485

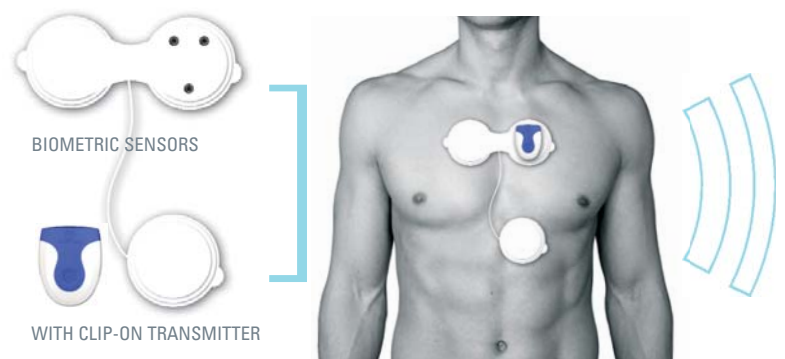
vitalsens

WIRELESS PLATFORM

With aging populations and an increase in chronic illnesses globally, there is growing pressure to move healthcare out of monitored hospital beds and preferably, to the home.

This transition can be achieved with the use of wireless monitors worn by the patient which will non-invasively check vital signs such as respiration, temperature, oxygen in the blood and ECG.

Intelesens has developed a *flexible wireless vital signs platform*, **vitalsens**, which can be customised to provide a range of monitoring products for in-hospital use and deployment at-home or on-the-move.



VITALSENS PLATFORM WITH THE V-PATCH PRODUCT

In partnership with V-Patch Medical Systems, we have developed and are shipping the **CE approved V-Patch** product; the world's first intelligent, wearable, non-invasive, wireless vital signs monitor.

An **FDA approved**, wi-fi enabled in-hospital general purpose monitor is currently in development in partnership with Partners Healthcare, Boston.

Our technology enables the **vitalsens** platform to utilise a variety of telemetry options ensuring the most effective application:

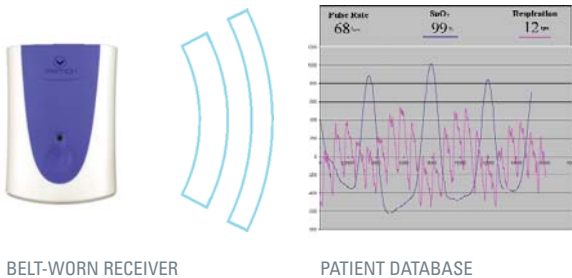
- Bluetooth
- GPRS
- Ant
- Wi-Fi



The **vitalsens** platform includes:

- Disposable, non irritant, easy-to-apply, adhesive body-worn patch electrodes for high quality collection of vital signs
- Reuseable, miniaturised clip-on transmitter (powered with long life battery) with telemetry and on-board analysis
- Optional matching belt-worn device forms a telemetry gateway using cellphone networks
- On-board intelligence monitors for and triggers on medical events, eg arrhythmias, transmitting data immediately for access by the clinician via the internet.

Examples of other products developed from this platform include Instantaneous Holter monitors, in-hospital multiple vital signs monitors and pulse wave velocity screeners.



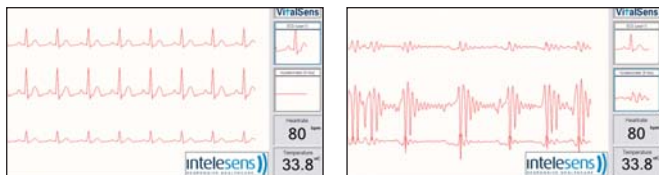
BELT-WORN RECEIVER

PATIENT DATABASE

responding to patients
health for accurate
diagnoses, analysis
and treatment

vitalsens measurements:

- High quality three lead ECG (below left)
- Heart rate
- 3-axis accelerometer data (below right)
- Respiration rate
- Pulse oximetry
- Temperature



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RESPONSIVE HEALTHCARE

Intelesens is an internationally recognised, leading innovator in targeted vital signs monitoring.

The company (formerly known as ST+D) is a spin-out from the University of Ulster in Northern Ireland, where there is a strong long-term relationship with 3 leading academics, thus ensuring the continued identification and design of world leading new products. Intelesens develops and manufactures its own products and also products for other OEMs.

Why choose Intelesens...

- Market-changing wireless vital signs monitors
- Wealth of expertise combining medical, electronics and body sensors
- Years of experience in medical electrode/sensor design and manufacture
- ISO 9001 / ISO 13485
- Medical devices supplied to well-known OEMs since 2001
- Customers include Welch Allyn, VPMS and HeartSine

What can Intelesens do for you...

- Supply innovative cost reducing medical devices for re-badging and sale through your distribution network
- Design and supply high quality, disposable sensors/electrodes for use with your medical devices
- Design and CE / FDA approve state-of-the-art medical devices to be manufactured and sold by you as the OEM

lets talk

For further information on our products and to discover what Intelesens can do for you, contact:

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