

# intelezens

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](http://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 data.

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

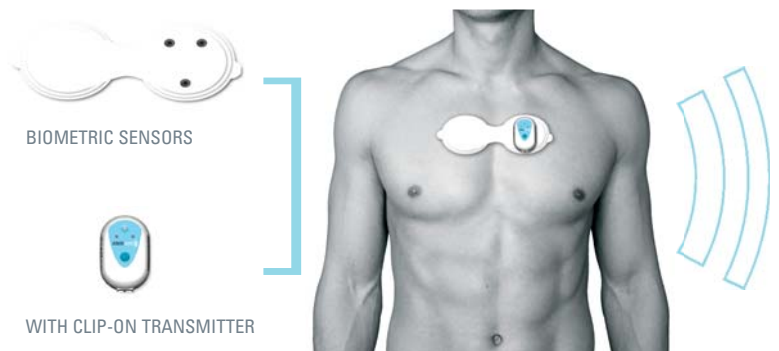
# vitalsens

WIRELESS PLATFORM



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

Whether in hospital or at home, Intelesens technology will monitor ECG, respiration rate, heart rate, temperature, motion and blood oxygen.



BIOMETRIC SENSORS

WITH CLIP-ON TRANSMITTER

INTELEHOLTER PRODUCT USING THE VITALSENS PLATFORM

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
- A choice of wireless protocols
  - Bluetooth, Ant Wireless, Wi-Fi, GPRS
- On-board intelligence can trigger alerts if set limits are breached or if lethal arrhythmias are detected.

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



< AINGEAL PRODUCT USING THE VITALSENS PLATFORM

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.

These include V-Patch and Aingeal, an **FDA approved**, Wi-Fi enabled, in-hospital general purpose monitor jointly developed with Partners Healthcare, Boston.

In each case the wearer's health information is transmitted wirelessly to a PC in the wearer's home, in a ward or via a cellular network for remote access by a clinician.



GATEWAY DEVICE



PATIENT DATABASE

responding to patients health for accurate diagnosis, analysis and treatment

**Measurement capabilities with vitalsens:**

- High quality three lead ECG with full disclosure (below left)
- Heart rate with 10 arrhythmia event detection
- 3-axis accelerometer data (below right)
- Respiration rate
- Pulse oximetry
- Temperature
- Motion



# Intelesens

RESPONSIVE HEALTHCARE

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

The company 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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