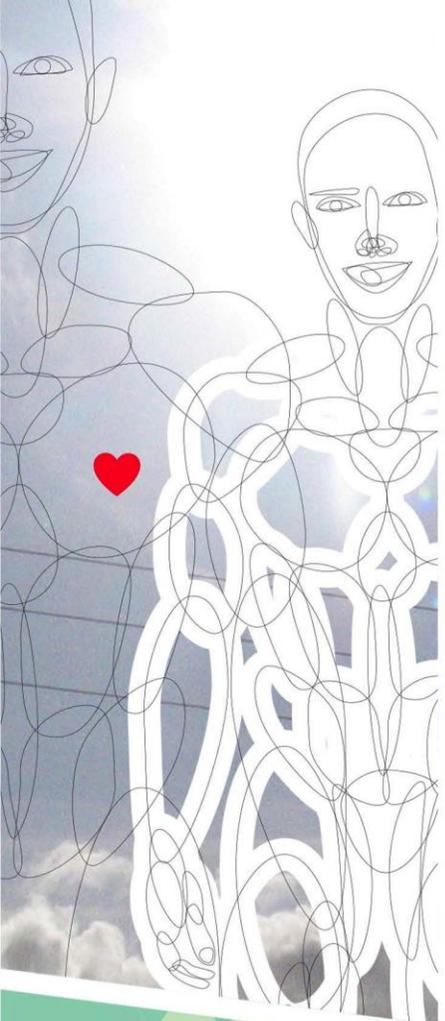


OxiSense

- is a smart phone App for general health. The World Health Organization has categorized more than thirty thousand different diseases, but at the end of the day it is all about general health. If your blood circulation works fine, the body can handle a lot of difficulties!
- is simple. Place your phone close to your body, camera towards the skin, and record some seconds of video. In 1974, it is discovered that the camera can see light reflected back from beneath the skin, representing blood flow and content by means of the so-called "PPG signal". This phenomenon has facilitated ever smaller oximeters; standard now in every hospital.

*Image design c/o
@Bureau./H*



Of late it has been discovered how the PPG signal can be captured in the visual light spectrum and how much more can be found by analysis of the signal. For instance:

Heart Beat. The heart pushes the blood around to bring life to the organs. Following the amount of blood that passes by in principle shows the heartbeat. A good heart works like clockwork, varying little in the ticking.

Blood Pressure. When the blood is pushed into the veins, they will flexibly widen to allow for more blood to go through. When the walls do not give way, the pressure will rise.

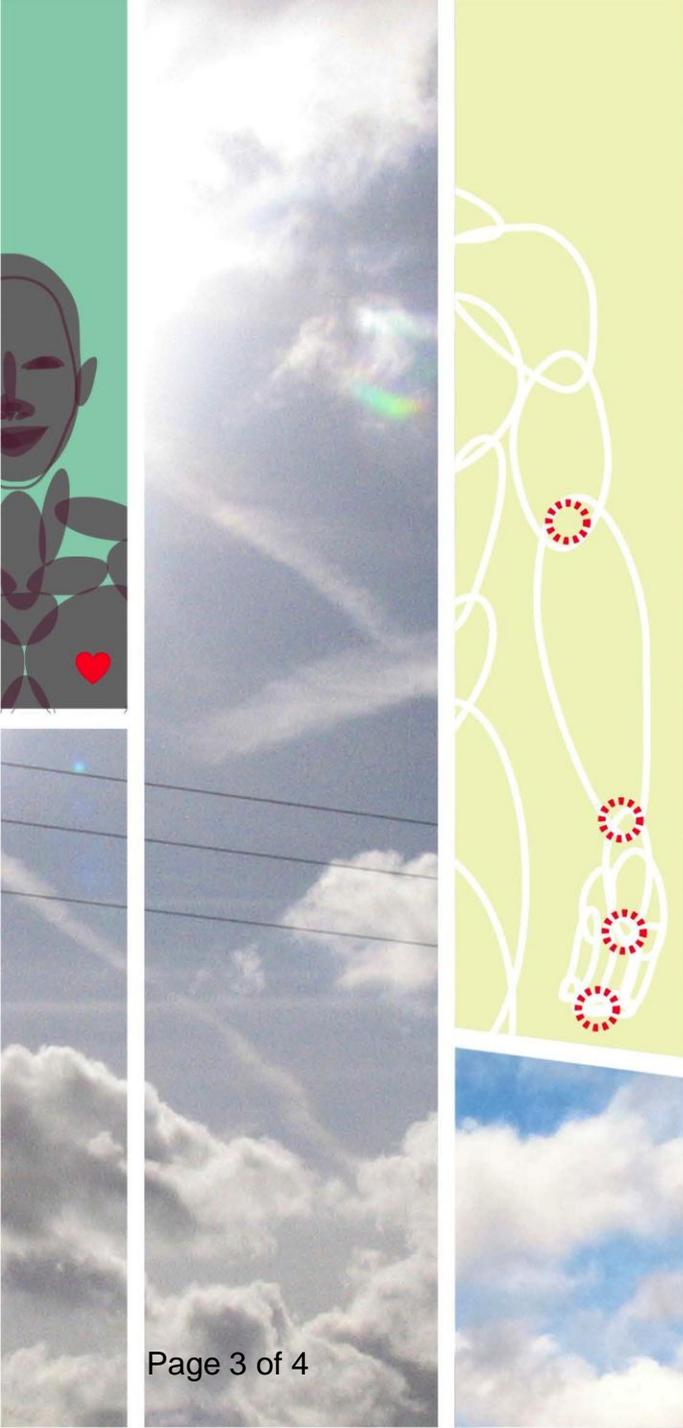
Respiration Rate. The lungs claim oxygen from the inhaled breath. The more oxygen comes from the single intake, the less breathing is required and the respiration rate will be comparatively low.

Oxygen Content. The blood will carry oxygen from the lungs to the organs as the energy generation inside the organs use this. An oxygen deficiency will require a higher heart beat to bring more fuel to the organs.

Acidity. The blood becomes acidic when the oxygen demand in organs exceeds the supply. Acidity will lead to organ damage; so nature has several mechanisms in place to limit damage to the body temporarily.

**“Recent years have seen the rise of less expensive alternatives to the visit of the physician’s office.”
(MobiHealthNews 2012 Report)**

OxiSense is a product in the HealthOnPhone™ series of Comoray mobile health products. For more products, see Comoray’s HomePage.



OxiSense is non-invasive. This is a typical aspect of using PPG signals and therefore shared with many other PPG-based devices. The uniqueness of OxiSense is based on:

Device Independence. The product is created on top of a conventional consumer device, say on a smart phone. No additional devices are required and no wires have to be connected. It is just there, inside your phone!

Comoray technology can be integrated in health-related services for the Food & Fitness markets.

Correlation with Health. Similar to the way a physician determines the “vital factors” when meeting a patient, OxiSense makes an overall assessment of your health.

Tracking in Time. It learns from your measurements adapting to the specifics of your body to become even more accurate over time and hence serve you better.

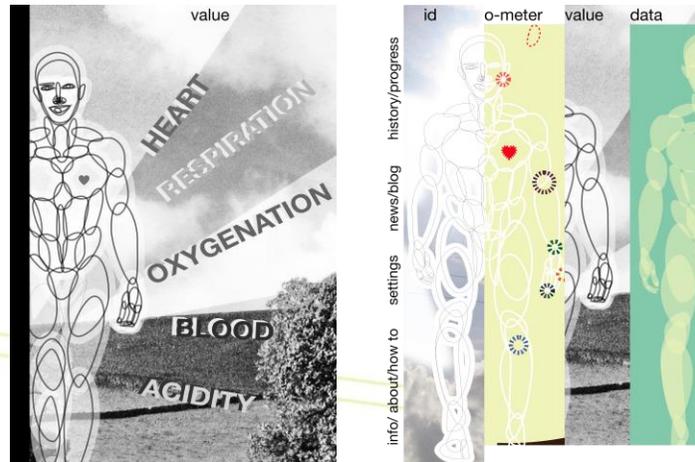
OxiSense is model-based. Some of the parameters are measured directly, most are interpreted over a model. It takes some time for the model to be personalized. Hence some health values are immediately given while others appear first as a trend.

The faithful user will see that in the course of time more and more parameters become visible. They move from trends via predictions to values. And it stays that way if being used regularly: just like a Tamagotchi.

“Patients become more engaged in their health care when they have easy access to their data.”
(PointClear Solutions, March 2012)

From the world of scientific research in PPG analysis, there will be more than only OxiSense. In a planned order, the best of these results will be made available in upcoming products. Particularly we will shortly launch several products that deliver information about your direct work- and living environment. Is your headache caused by a hang-over or by being in an unhealthy atmosphere?!

This will make a HealthOnPhone your 24/7 companion to advise you on staying on top both at work and at play!!



**Image design c/o
@Bureau./H**