

How Oxevision measures your pulse rate, breathing rate and movement

Pulse rate

When your heart beats, your skin flushes red. The human eye cannot see these “micro blushes” but Oxevision’s infrared sensitive camera can, using infrared light. Oxevision counts these “micro blushes” to give a pulse rate, just like the pulse oximeter finger clips that nurses use. It works for all skin tones.



Breathing rate

As you breathe, your chest and diaphragm move and expand. Oxevision counts these movements to give a breathing rate, just as a nurse would do if they were observing you in person and counting with a stopwatch. It can work even when you have a duvet covering you.



Movement

Oxevision lets staff know where you are in a room. It knows where key locations are in the room — like the doorway, the bed and the en-suite bathroom. It can pick up on movement between these locations and let staff know, for example, when you have left your room. It cannot see into the en-suite bathroom, it just knows when you have entered that area and when you leave it.