

CASAMBI SOLUTION



Smart

The Casambi devices are smart on their own. All the intelligence is replicated in each node leaving no single point of failure. The system itself is self healing and in constant synchronization. In this kind of fully distributed and symmetric architecture any unit can go offline and catch up from others when they return back online.

Connected

The Casambi devices are connected when needed. An Internet connection is not necessary. Bluetooth Low Energy is already implemented in smartphones and tablets, so communication between the user interface and the network of luminaires can be done without any additional gateways.

User friendly

The system is intuitive. You do not need any new wiring, switches, devices or networks. Plug in the lighting fixture and pair it with your phone or tablet. No other configurations by a professional technician are need.

Application

The Casambi solution is made both for the consumer market as well as the professional market. The user interface is made in a way that anyone - regardless of technical proficiency - can use the system.

Make Lighting an Experience

Different tasks require different lighting whether you are working in an office or spending time in your home. Instead of having "accidental lighting", control your lighting to fit a purpose.

The Casambi solution is practical in daily use, easy to install and you can share your network with your family or with your colleagues.

The Casambi lighting control system is also delightful to use. You can change your ambiance according to your mood by dimming, changing the colour of the light or adjust the colour temperature according to your daylight conditions. We help you to make lighting an experience.

Wireless

Bluetooth Low Energy, also called Bluetooth 4.0+, Bluetooth Smart or simply BLE was originally designed by Nokia as Wibree before being adopted by the Bluetooth Special Interest Group (SIG) and published in 2010.

The low energy functionality of BLE allows developers to make products that run on small coin-cell batteries or energy-harvesting devices, making BLE a good protocol to be used in wireless lighting control applications.

Bluetooth Low Energy was built for Internet of Things (IoT) and implemented in smartphones and tablets since the beginning of 2012.

This means that no gateway modules or any kind of dongles are needed to control lighting via BLE, which makes a BLE based lighting control solution more cost effective than solutions built on other wireless technologies. Casambi Technologies' wireless lighting control solution is not just a lighting control system - Casambi is a technology.

Based on Bluetooth Low Energy, Casambi has developed an own proprietary mesh network where all the intelligence of the system is replicated in every node and in such a way creates a system with no points of failure.

The solution is self-healing and self-organizing. It also allows for firmware updates over the network allowing any kind of changes to be made over-the-air and in that way to be truly wireless.

In this kind of fully distributed and symmetric architecture any unit can go offline and catch up from others when they return back online. Internet connection is only needed for user interface configurations for smartphones and tablets via cloud service.