Smart™ Beacon



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Sm@rt™ Beacon

Sm@rt Technology, SmartBeacons provide a wealth of information for both mainstream and disability users, to enhance their lives in a much-needed way.

Our Smart Beacons provide multi-user access to information, merely by being in the vicinity and range of the beacon, when using Sm@rtApp VI, that is designed specifically for Visually Impaired people, and has full integration to all of our systems.



Operating with BLE5.0 low energy chipsets and ranges of up to several hundred metres, our beacons have full CE/FCC certification, with battery lives of up to 35 years.





Wayfinding

When used for wayfinding for Visually Impaired people, our SmartBeacons can be directional and give information along a route such as “disabled toilets left” or “seating on your right”. Also, street information e.g. pedestrian crossings, street intersections, and any other information required to be known.



In a confined area like a Railway Station, they can give an introduction when entering the station, for example “welcome to Preston Railway Station. The ticket office is on your right, automated ticket machines on your left, and platforms 1 to 10 straight ahead”. This would automatically give the Visually Impaired person information on their surroundings so that they could visualize the area.

Museums and Stately Homes



Using our SmartBeacon's in Museums and Stately Homes, totally makes sense. Visually Impaired people want to enjoy cultural visits, the same as sighted people do, but can find it difficult to have the same level of enjoyment and experience that others have. With our SmartBeacon's they can:-

- **Transmit information about any object or place.** Like a painting in an art gallery, an artefact in a museum, or the menu in a restaurant.
- **Create self-guided tours,** where the information automatically changes as visitors move from one beacon to another.
- **Build awesome location-based experiences;** such as mazes, soundscapes, treasure hunts, and more

The uses of our systems are only restricted by your imagination, and can create a whole new world for people with sight loss.



Supermarkets / Shopping Centres

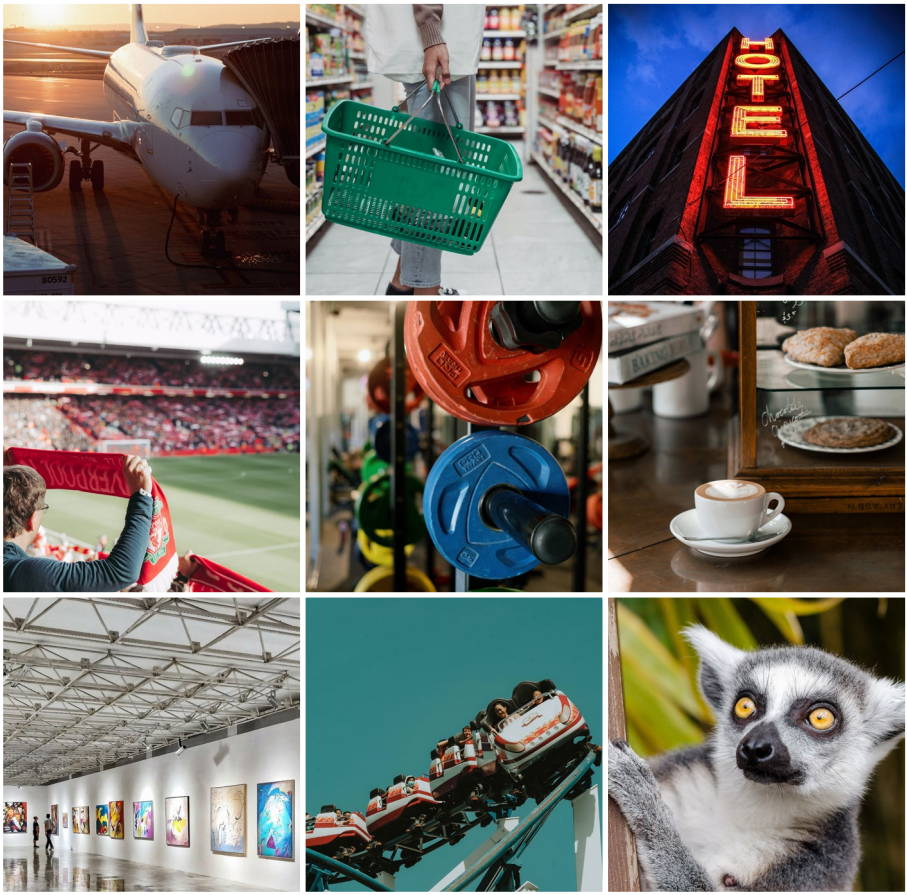
When used in Supermarkets or Retail Shopping Centres, our SmartBeacons can provide wayfinding around the complex, as well as information for isles as to what products are down each one. SmartToilet Beacons can be used in the disabled toilets.

Other potential market sectors are as follows.

- **Supermarkets/retail/shopping centres-isle,** directional information, SmartToilet etc.
- **Hotels** - disabled room layouts and in reception and shared spaces directional guidance, menu in restaurants, SmartToilet etc.
- **Airports** - layout and travel information, SmartToilet.
- **Football stadiums** - directional and layout, SmartToilet.
- **Garden centres** - directional/layout, display information, SmartToilet.
- **Local councils** and public buildings eg. Libraries.
- **For town centres** - directional information and landmarks, SmartToilet.
- **Bus stations** - Smart bus, directional information, SmartToilet.
- **Train station-travel information**, directional and safety information, room layouts, SmartToilet.
- **Theatres and cinemas** - directional information, room layouts, SmartToilet.
- **Gyms, leisure facilities and swimming pools** - directional info and room layouts, SmartToilet, safety.
- **Cafes, restaurants and bars**, room layouts and menu information, SmartToilet.
- **Art Galleries and Museums** - directional info, exhibit information, guided routes, SmartToilet
- **Public parks and spaces** - navigational information as stated by the National Trust could also give distance and gradient info - helpful to wheel chair users as well. SmartToilet
- **Hospitals** for directional information, smart toilet, café/menu info.
- **Universities** for directional information in buildings and on campus, exhibits and displays, safety, SmartToilet

- **Ferry terminals** for directional information, room layout, SmartToilet
- **Tram stations**, for directional info, safety information
- **Theme parks** for directional information. Information on rides, room layouts, SmartToilet
- **Zoos and animal parks** for directional information, animal exhibit information, room layouts, SmartToilet, café layout and menu.

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Visually Impaired People using Sm@rt Systems

A VI person can walk out of their door using a SmartCane or SmartWrist unit with SmartApp VI and travel around safe in the knowledge that they're going to have a virtual assistant with them wherever they go.

On leaving the house they can select where they want to go using the Navigation function of the SmartApp to one of the 10 saved locations or select a new location. They may want to travel into town by bus and could select the saved home bus stop.



On arrival at the bus stop fitted with a SmartBus unit they will hear the name of the bus stop and the real-time information on the next three buses due to arrive at that stop.

When they get off the bus at their town bus stop or bus station, when walking along the pavement and approaching a pedestrian crossing, they would hear the name of the crossing announced "approaching Smith St. Crossing", if fitted with a SmartCross unit. They could then put a demand in using the SmartCross button on their SmartCane or SmartWrist unit.

When entering a building they would hear information of the layout of the floor from one of our Smart Beacons. If then going to the disabled toilets, on entering the toilets they would hear a description of the toilet layout from our SmartToilet Beacon.

If they approach electric doors fitted with SmartSwitch Lite, they would hear “approaching electric doors” as with SmartCross, they can press the SmartCross function on their SmartCane to remotely open the doors and would hear “electric doors opening inwards to the left”

If they put their cane down and can’t find it, they merely shake their phone and the cane bleeps.

When travelling out at night, if dark, the SmartCane automatically flashes every second to make traffic aware that there’s a visually impaired person walking along.

Our systems have many other functions to enhance a person’s life and take the ‘Dis’ out of disability.

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Images shown are indicative of the types of installation described that are currently in the public domain