

SLEEPEASY

Helping The World To Sleep Easier...



The SLEEPEASY Band

As you sleep you go through sleep cycles which go from a deep sleep to a light sleep. If you wake up during a period of deep sleep you feel tired, where as if you wake during a period of light sleep you wake up feeling refreshed and ready for the day ahead. This is where the SLEEPEASY band comes in, it learns your sleep cycle through the built in accelerometer which measures your movement while asleep and wakes you during your lightest sleep phase.

Main Features:

- Waterproof.
- Up to 10 days of battery life.
- Vibrates gently to wake you up.
- The silent alarm ensures no one else is woken up unnecessarily.
- Recommends how long you should sleep for each night.
- Portable USB charger.
- Ensures you are awake and ready for the day ahead.
- Link to Unicef.
- Available in a range of colours.



Smartphone Application.

The SLEEPEASY app lets you set the time that the alarm will go off as well as telling you your recommended sleep duration based on your activity levels throughout the day. To sync the device all you need to do is link it to your Bluetooth enabled phone, enter the unique id of the device in order to make it exclusive to your phone.



Wakes You When Sleep Is Lightest.

While you sleep you go from periods of heavy sleep to periods of light sleep. The period you are in when you wake up is critical in determining how tired you are when you wake up. The built in accelerometer monitors your movement in order to work out what phase of sleep you are in, it then wakes you in your lightest period of sleep within the 30 minute set alarm period.



Recommends How Long You Should Sleep For.

Using the accelerometer the device measures your activity levels throughout the day and displays this information on the application. It then works out how long you should sleep for each night based on this information.



Silent Vibrating Alarm.

Instead of having an audio alarm, the device vibrates gently in order to wake you up. The longer you leave it the more rigorous the vibrations become until you shake your wrist to turn the alarm off once you are awake. This also means that should you be in bed with a partner it will not disturb them as it is silent.



Charging.

The device lets you know it needs charging by vibrating every ten minutes when it has an hour or less battery life left. To charge the device you place it in the USB station which you plug in to your computer, the three gold pins then line up with the ones in the station and it charges the product through your computer's power. Each charge can provide the band with up to 10 days battery life.



Link With Unicef.

Malaria kills approximately 800,000 children in Africa alone every year, one mosquito net will cover two children & protect them from the fatal effects of malaria for 4 years. That's why for every SLEEPEASY band sold a percentage of the profit is donated to Unicef in order to buy mosquito nets for children in third world countries so they too can have a better sleep.



Manufacturing Process.

1. The Acetal band is formed within a mould.
2. The components are then all attached to the Acetal band and wired up together.
3. The colour of the band is then decided and the pigments mixed in with the silicon.
4. The band with all the components attached is then over moulded with silicon to seal and protect all the components inside and give the product a high quality finish.
5. The band is then embossed with the name of the product and the Unicef logo.



Product Price.

The device will be sold for £10. The reason for pricing the product at £10 is so that it covers the cost of the components and manufacturing while leaving enough profit for a reasonable amount to be donated to Unicef and still making a profit on the product itself.



Silicon Band.

The one size fits all silicon band is durable, waterproof and snaps back in to shape once you have placed it on your wrist due to the Acetal band within. The name of the band and the Unicef logo are both embossed in to the band so that people identify the product and that it supports Unicef. All of the components are sealed within the band so there is no chance of any water damage.



Exploded View

Embossed Name & Unicef Logo

Shows the supported charity.

Charging Pins

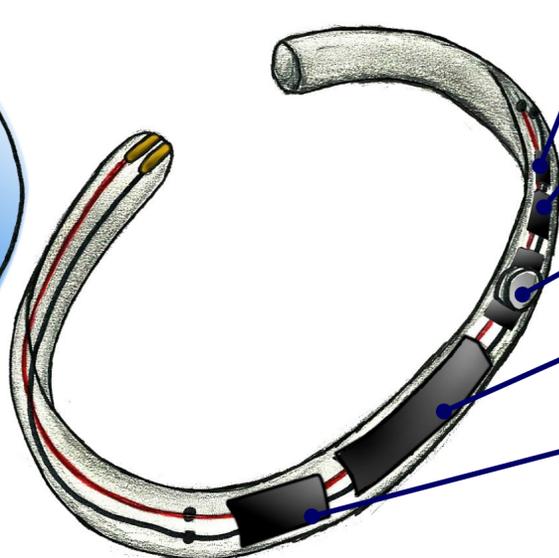
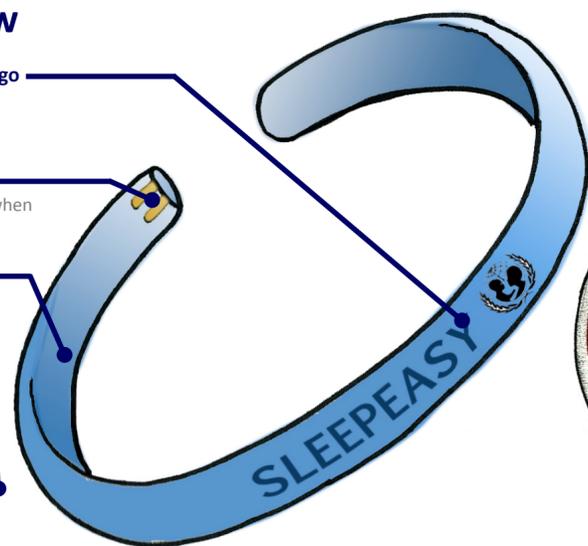
Allow the device to be charged when plugged in to the USB charger.

Waterproof

The silicon coating is completely waterproof.

Silicone Sample

This is what the device will be covered in.



Timer

Keeps the time so that you do not always need to be near your phone for the alarm to go off.

Bluetooth Chip

This chip allows the device to communicate with your phone.

Vibration Motor

This is the device that makes the band vibrate.

Rechargeable Battery

Up to 10 days use from each charge.

Accelerometer

Monitors your movement to work out what stage of sleep you are in and how much exercise you do each day.