

Task and room light for health workers

Country of origin | People's Republic of China

Health problem addressed

Health workers working in resource limited settings struggle with poor illumination while performing critical duties like delivering new-borns and emergency care for new-borns and mothers. They often rely on sources like candles and gas lamps or cheap electric torches which often are unreliable, unsuitable and in need of assistance. There is also a need for a focused beam of light for birth-related activities like vaginal inspection, noting cervical dilatation, etc.



Product Description

A compact, rechargeable light with a narrow focused task light, and ambient light with three brightness levels each. Shine times range between 4 to 70 hours on full charge and selected mode of brightness level. Lamp can be worn on head, neck, hung from roof or as a table lamp with simple accessories. It is rechargeable from main grid or solar panel through a micro USB port. When charged, it can also be used to as battery boost to the mobile phone. Lithium ion battery allows for long shelf life and a large number of recharge cycles.

When charged, it can also be used to as battery boost to the mobile phone. Lithium ion battery allows for long shelf life and a large number of recharge cycles.

Developer's claims of products benefits

This product is more robust, easier to use, and more affordable to maintain than other lights available in low-resource settings. This model does not require dry cell batteries. It can survive a 1m-drop. The bright focused light and hands free usage make it appropriate for lighting during medical procedures. It can be also used as an emergency power source to charge cell phones

Suitability for low-resource settings

Li-ion batteries with long shelf life, provides a maximum burn time of 70 hours. It is easy to recharge through grid using a micro USB port (even intermittent supply) and solar panel. This also can prove useful for emergency recharge of mobile phone battery. This light is easy to use with multiple light modes and usability features. Durable and robust casing for weather resistance.

Regulatory status

Is CE-marked.

Future work and challenges

A distribution channel that works to get the lights in the hands of the intended target users is the biggest challenge. It may happen through government procurements for its public health workers or through organised channel partners in the domain. Customs duty for imports into certain nations may add to the cost of the product.

Use and maintenance

User: This task light is designed for all health care personnel

Training: None

Maintenance: Requires only regular cleaning and charging

Environment of use

Setting: The task light can be used anywhere, in any setting

Energy Requirements: Required power supply to recharge: 100V for 3 hours. If by solar power, requires 4 hours sunlight. Or continuous power supply of 5V. Expected battery life is 70 hours.

Product specifications

Weight (kg): 0.3

Dimensions: 70mm x 70mm x 35mm

Consumables: None

Lifetime: 5 years

Retail Price (USD): 19

Other Features: can be wall mounted, attached to a head/strap or table/mounted

Year of Commercialization: 2014

Currently sold in: Rwanda, India