

ONE CHILD ONE LIGHT – INSTRUCTIONS, WARRANTY AND SPECIFICATIONS

INSTRUCTIONS TO THE USER

This Accendo Study Light is specially designed for children’s studies. It is safe and provides clean white light for reading. It illuminates a surface 20 cm away with white light that is more than 10 times brighter than a kerosene hurricane lantern or “kuppi” lamp. Once the battery is fully charged, the light can give 8 to 10 hrs of light.

The Study Light

1. Keep the light on a table on its base. Position the light so that the light beam is directed at the center of the book or paper and illuminates the page uniformly.
2. Turn the switch to “1” to turn it on and to “0” to turn it off.
3. Do not keep light on all night long. TURN IT OFF when it is not needed to save the battery power. DO NOT WASTE ENERGY.
4. The gooseneck wire holding the light can be bent easily to light the reading surface.

Charging

1. Charge the light using the solar panel for 5 to 6 hrs for the first time before use.
2. When charging, keep the solar panel (dark side towards the sun), directly facing the sun as much as possible throughout the day. Do not let shadows fall on the panel.
3. **Gently** insert the connector at the end of the wire from the solar panel into the socket in the light base. Make sure the light SWITCH is turned off (“0” setting) during charging.
4. While charging the light, keep the light indoors in shade and away from water.
5. When sunlight strikes the solar panel, the “Red” indicator light on the light base, turns on to show that the pin is connected and the light is charging. When the indicator light turns “Green,” the light is fully charged. The light can be charged fully in a bright sunny day in about 5 to 6 hours.
6. After charging, unplug the solar panel from the light and safely store the solar panel in its box. Keep the wire wound up and held together with a rubber band.
7. Charge the light daily so that there is sufficient charge for any cloudy/rainy days.
8. Even when the “green” indication is not showing, the battery might have enough charge for hours of use.

General care

1. THIS IS NOT A TOY – IT IS A VALUABLE STUDY AID!
2. The light must be used indoors or where it will not get wet. Do not use it in damp places like bathrooms, drop it in water or keep it in the rain. The solar panel can get wet.
3. Wipe the panel clean and blow dust from the connector pin periodically.
4. If the light is kept in discharged condition for long time (more than 3 months), the battery may fail to recharge again and may need to be replaced.
5. The panel and light are made of tough material. But treat them with care. Dropping or throwing on hard surface could break the solar panel or light.
6. Handle the light switch gently for long-lasting use.
7. The flexible gooseneck is made for long term use, but improper bending or playing with it can break it or reduce its flexibility.
8. The LED light is diffused for the safety of children’s eyes, but do not look at it directly.
9. Never insert any other material into the charge socket as it can short battery circuit and may cause a fire.

Emergency charge with AC charger.

1. In case of emergency (i.e., sunlight is not available for a long time) charge light using only a genuine Nokia mobile phone charger with matching pin. Never use other types of chargers as it will damage the light and void the warranty.
2. A charge of 3 hrs is sufficient while using Nokia charger and irrespective of green indicator light showing. It can be disconnected after 3 hrs of charge.

REPLACEMENT OF PARTS

1. The Nickel-Metal Hydride (NiMH) batteries can be easily replaced after batteries are worn out. The central circuit card can be easily replaced in case of failure. The replacement must be done by a trained technician.

WARRANTY

1. The solar photovoltaic panel carries a warranty against manufacturing defect for three (3) years (if the output in drops below 80% of rated output, due to a manufacturing defect, the solar panel will be replaced by manufacturer at no cost to the customer).
2. The light including the batteries, LED cell, electronics, switches and connectors carry a warranty of six (6) months against manufacturing defects. The light is considered defective if when the battery is fully charged, the light output drops below 70 percent of the light output when it is first turned on (for example, if the initial output from the new lamp is 30 lumens, and if the output when the battery is fully charged drops below 21 lumens, it is defective). Also, if the duration of lighting from a fully charged battery drops below 5 hours, then the light is defective.

SPECIFICATIONS

Solar Panel

1. The solar panel is made of mono/poly crystalline material, encapsulated behind glass, with an aluminum frame with a 3.5 mm connector.
2. The solar panel generates approximately 5.5 volts and 114 mA current under bright sun light conditions.
3. The solar panel is made to work for many years of daily use.

LED (Light Emitting Diode)

1. The Nichia Superflux LED from Japan produces 30 lumens of white light and operates at 3.3 volts and draws 60 mA current.

Electronic circuit

1. The main electronics of the light are driven by an "ON SEMI conductor" which boosts the 2.4 volts battery to 3.3 volts and supplies a stable voltage and current to the LED from a charged battery.

Battery

1. The rechargeable battery pack comprises of two high quality NiMH batteries connected in series. It produces 2.4 volts and 800 mA current when fully charged. It can last 1 - 2 years.