

*NEOZ*

## **V4 Cordless Lamp System User Guide**

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## Welcome!

Thank you for investing in NEOZ Cordless Lighting. This user guide describes the features and functions of the Cordless lamp and charging systems. With due care your Cordless Lamp will provide many years of useful illumination.

We have incorporated over 15 years of experience into the design of your new V4 NEOZ Cordless Lamp System and each Cordless Lamp utilises an advanced electronic control system developed specifically by NEOZ to optimise the battery charging process ensuring reliability and best battery performance.

We welcome + encourage customer feedback on NEOZ Cordless Lamps and trust you enjoy the use of this lamp.

PETER ELLIS

## Important Notes

### **Read instructions before use.**

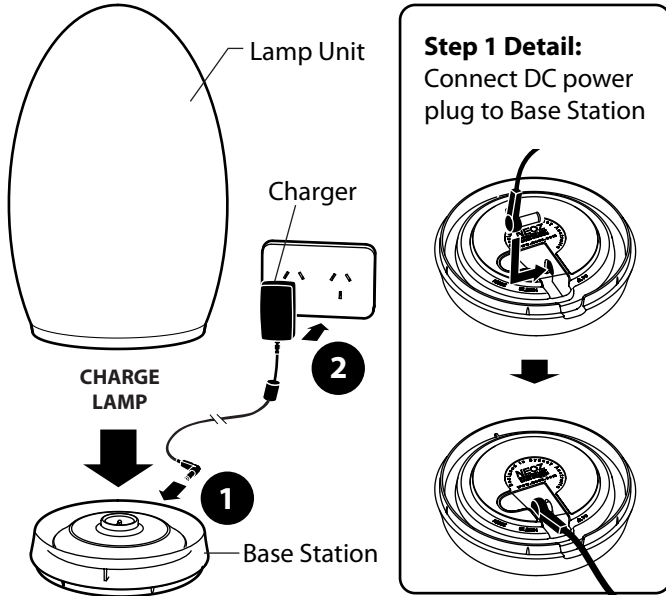
- Do not place lamp on an unstable surface or heat source.
- Do not use a damaged power cord.
- Do not immerse into water.
- Do not expose lamp to extreme humidity and hot environments.
- Use the lamp regularly - batteries like to be exercised for optimum life.
- Only charge the Lamp using approved NEOZ Cordless Lamp Chargers.
- Always store lamp with charged battery.

# Components + Connection Diagram

## Base Station

Charging Option for **1 Lamp**

Follow the steps to setup your Cordless Lamp System.

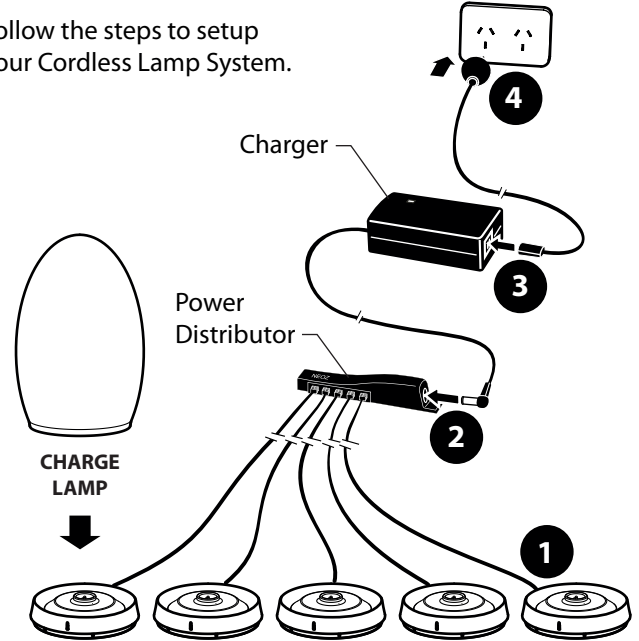


# Components + Connection Diagram

## Base Stations and 5-Way Power Distributor

Charging Option for up to **5 Lamps**

Follow the steps to setup your Cordless Lamp System.

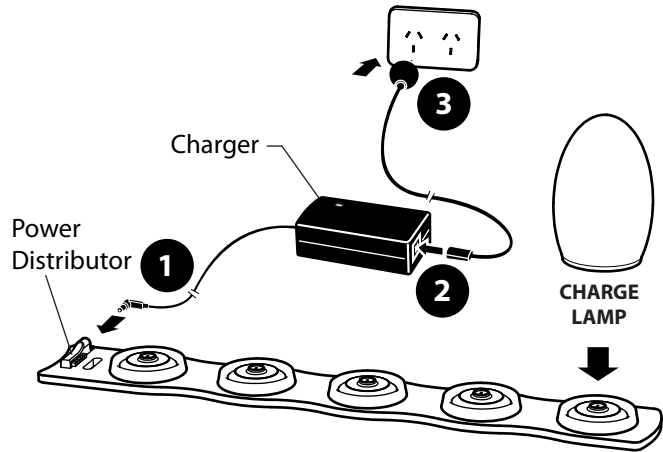


## Components + Connection Diagram

### Charging Bar (Short or Long)

Charging Option for up to **5 Lamps**

Follow the steps to setup your Cordless Lamp System.

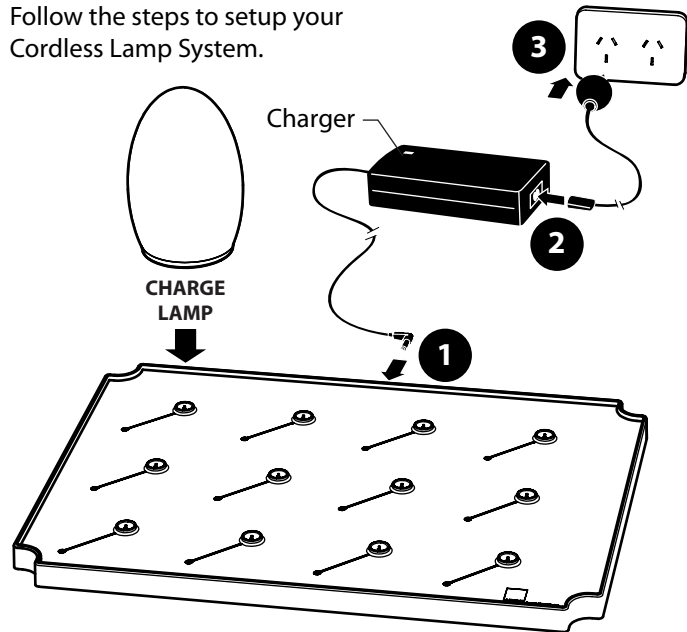


## Components + Connection Diagram

### Recharging Tray

Charging Option for up to **12 Lamps**

Follow the steps to setup your Cordless Lamp System.

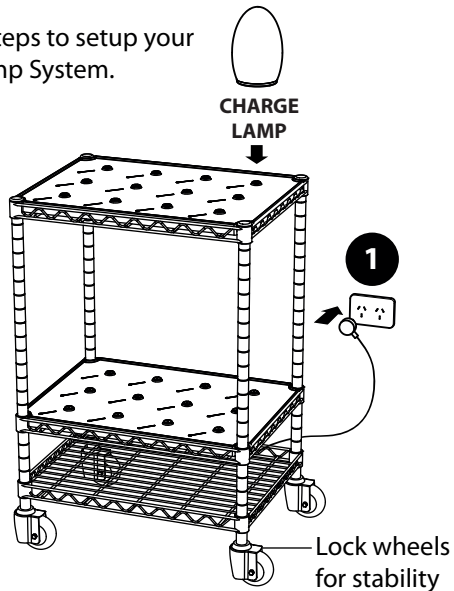


## Components + Connection Diagram

### Small Recharging Trolley

Charging Option for up to **24 Lamps**

Follow the steps to setup your Cordless Lamp System.



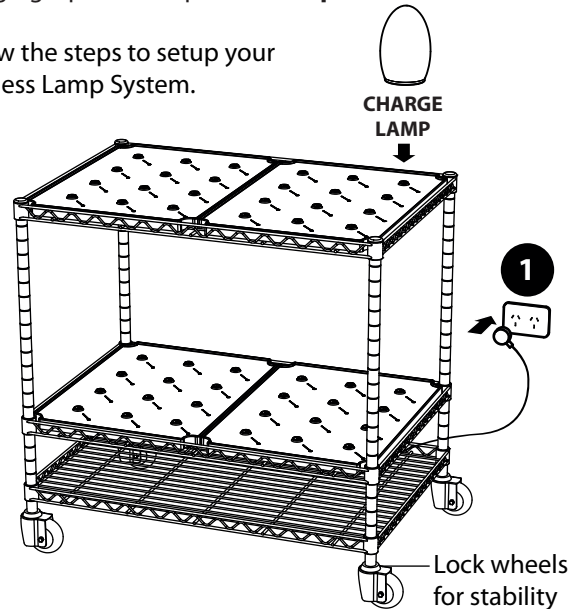
**IMPORTANT ! Do not push trolley when Lamps are mounted**

## Components + Connection Diagram

### Large Recharging Trolley

Charging Option for up to **48 Lamps**

Follow the steps to setup your Cordless Lamp System.

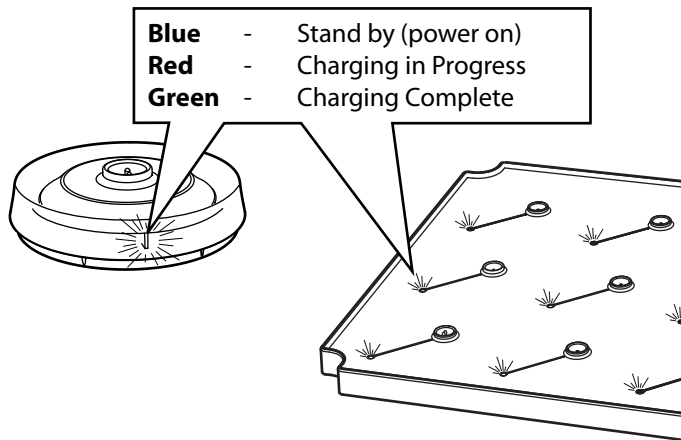


**IMPORTANT ! Do not push trolley when Lamps are mounted**

## Charging Status Indicator

Your Cordless Lamp Charging System should now be on 'Stand by' mode, with charging status indicator showing blue.

Base Station or Recharging Tray examples:



## Charging the Battery

To recharge, simply place lamps onto Base Station.

Lamps can be placed onto Base Station when not in use. Overcharge is impossible.

### First Time Use

- Your Lamp is pre-charged and ready to use

### Note

The lamp can be recharged at anytime without the need to fully discharge. Lithium-ion batteries do not suffer from a 'memory effect'.

### Model

### Charging Time

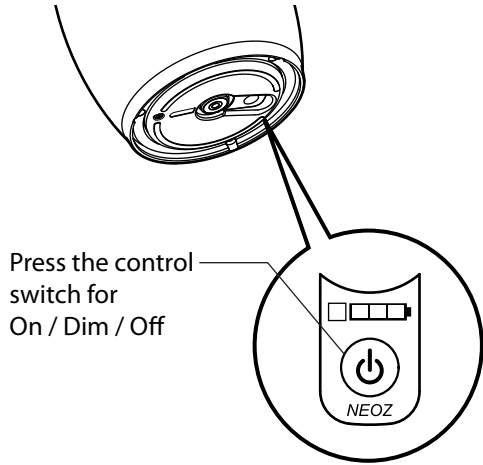
Cordless Lamp PRO

Approx. **8.5** hours

Cordless Lamp ECO

Approx. **4.5** hours

## Lamp Control + Operating Modes



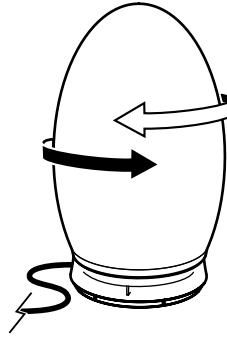
The lamp has 2 operating modes cycled through the control switch, **Normal Mode** (default) and **Candle Mode**.

### To switch between modes:

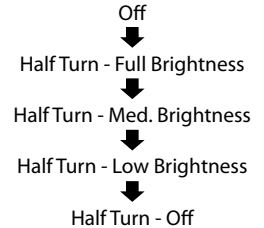
1. Press and hold the switch (⏻) for 10 seconds.
2. Release the switch (⏻) when the red LED flashes.

## Turning Function

The "Turning Function" is specific to single Base Stations with 15W chargers. Rotate the lamp while located on the Base Station to control On / Dim / Off




### SWITCHING SEQUENCE (In normal mode)



### Note

- The charging process will stop temporarily when illuminating on the base station and will resume once the light is switched off
- The lamp will continue to operate as conventional corded lamp even after the battery has reached the end of its service life or is not installed.

## Operating + Light Time

Press the control switch  to turn On and select Dim level.  
Light times for each Dim level given below.

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### Cordless Lamp PRO equipped with 5200mAh Sanyo Li-ion battery

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<b>Normal mode</b>	<b>5W Halogen</b>	<b>10W Halogen</b>	<b>1.1W LED</b>
Full Brightness	11 hours	6 hours	56 hours
Medium Intensity	17 hours	9 hours	104 hours
Low Intensity	33 hours	17 hours	260 hours

<b>Candle mode</b>	<b>5W Halogen</b>	<b>10W Halogen</b>	<b>1.1W LED</b>
Full Brightness	18 hours	9 hours	110 hours
Low Intensity	26 hours	14 hours	205 hours

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
### Cordless Lamp ECO equipped with 2600mAh Sanyo Li-ion battery

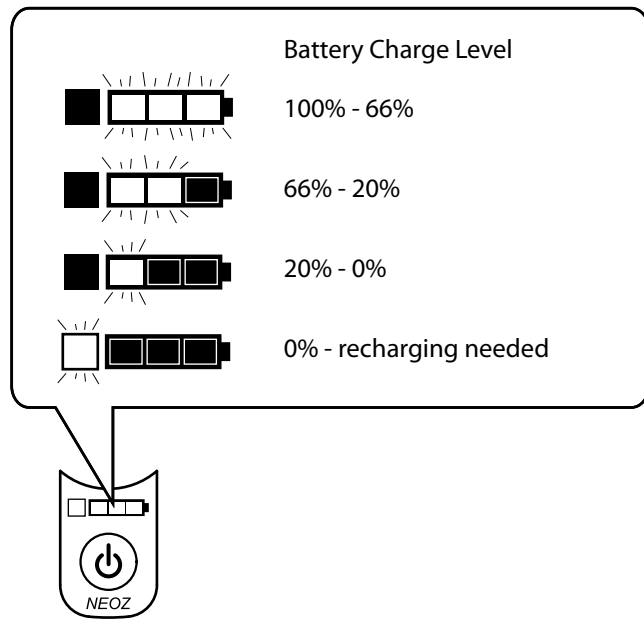
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<b>Normal mode</b>	<b>5W Halogen</b>	<b>10W Halogen</b>	<b>1.1W LED</b>
Full Brightness	-	-	28 hours
Medium Intensity	8 hours	-	52 hours
Low Intensity	14 hours	-	130 hours

<b>Candle mode</b>	<b>5W Halogen</b>	<b>10W Halogen</b>	<b>1.1W LED</b>
Full Brightness	9 hours	-	58 hours
Low Intensity	12 hours	-	110 hours

## Battery Charge Level Display

The battery charge level display illuminates when the switch  is pressed (except switching off)



## Battery Maintenance

NEOZ Cordless Lamps are powered by high capacity rechargeable lithium-ion battery packs. These batteries will perform to their optimum service life if operated with care. Please read the following tips to keep your lamp's battery in the best condition:

- Use the lamp - Rechargeable batteries like to be exercised for optimum life.
- Recharge the lamp at least once per month.
- For storage longer than 1 month, always store your lamp charged between 66% - 20% (2 LED's showing on Battery Charge Level Display)
- Avoid high temperature. Operating and storing lamps in hot environments will impair performance and shorten battery life.

For battery pack replacement please contact NEOZ or your Cordless Lamp dealer.

## Cleaning

### **Glass Diffusers**

Apply silicon based cleaner and wipe with soft cloth.

### **Resin Diffusers**

Apply small amount of moisturising hand cream and wipe with a soft cloth.

### **Brass & Copper Diffusers**

Apply liquid brass/copper polish to a cloth and rub gently over the diffuser surface. Use a second clean, dry cloth to buff the diffuser.

### **Plastic Diffusers & Parts**

Clean with damp cloth and take extra care to avoid liquid spills onto electrical contact.

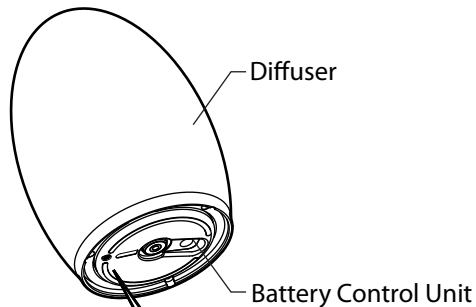
### **Stainless Steel Diffusers & Parts**

Clean with damp cloth. Use stainless steel polish & cleaner to remove stains and help minimize scratches.

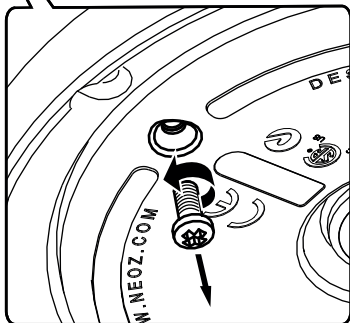
### **Lamp Bottom and Base Station**

Clean with damp cloth and take extra care to avoid liquid spills onto electrical contact.

## Diffuser Replacement



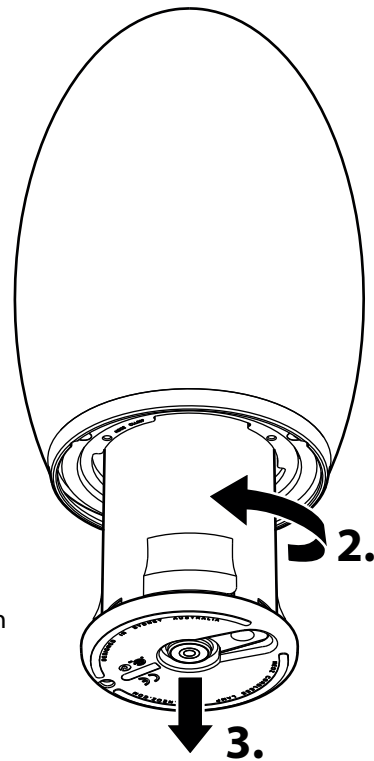
- 1.** Remove the screw from the Battery Control Unit



- 2.** Rotate the battery control unit in anti-clockwise direction.

- 3.** Carefully remove the battery control unit from the diffuser.

- 4.** To re-assemble the battery control unit to the diffuser simply follow these steps in the reverse order.



## Light Bulb Replacement

### Light Bulb Specifications

12V 5W G4 Halogen Frosted

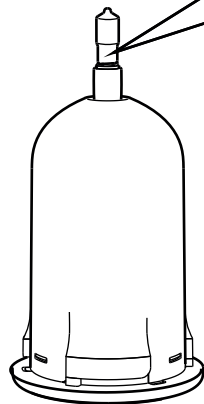
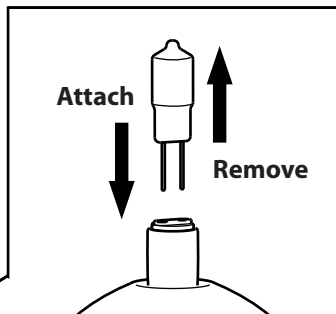
or

12V 1.1W G4 NEOZ LED

or

12V 10W G4 Halogen Frosted

(Note: Lamp must be factory programmed to accept 10W)



### Note

- Always use NEOZ approved lamp type
- Be careful not to bend the contact pin of the lamp during insertion into lamp holder.
- For light bulb replacement please contact NEOZ or your Cordless lamp supplier.

## Battery Replacement

NEOZ Cordless lamp is powered by a specially designed Lithium-ion battery pack. For any replacement battery requirement please contact NEOZ or your Cordless Lamp supplier.

### CAUTION

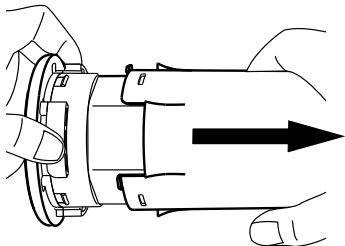
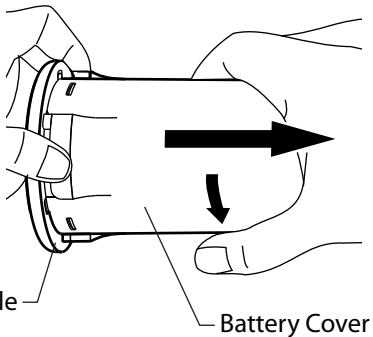
NEOZ Cordless Lamp and Battery Pack contain delicate electronic components. **Please read the instructions and proceed with extra care.**

- Please proceed with battery replacement in a dry and cool environment
- Be careful not to drop the battery pack during installation
- If there is any sign of damage on the battery pack, please stop using it immediately and contact NEOZ for replacement.
- Do not connect the battery pack to any other device other than NEOZ Cordless Lamp.

# 1.

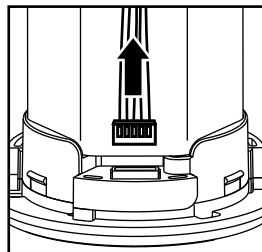
To remove the battery cover, remove bulb and then hold the Battery Control Unit as shown.

**PULL** then **TWIST**



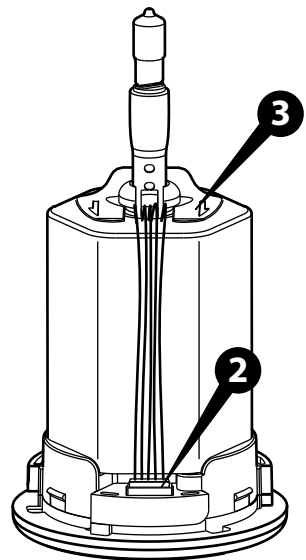
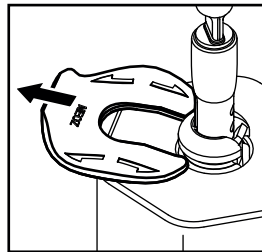
# 2.

Unplug the battery connector



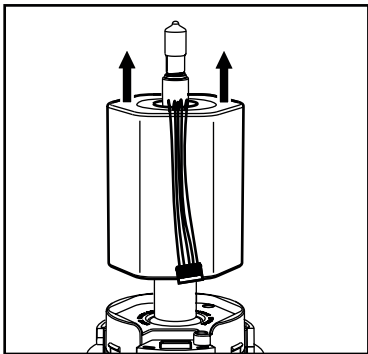
# 3.

Remove the battery retainer clip



## 4.

Remove the battery pack



- Do not dispose the battery pack in fire or heat source.
- Do not disassemble the battery pack. Doing so may damage the protection device and cause short circuit.
- Lithium-ion batteries contain valuable resources which are recyclable. Please follow battery recycling guidelines in your local area.

## Warranty

NEOZ warrants the products sold by it to be free from defects in materials and workmanship for a period of 3 years from the date of purchase.

NEOZ shall repair or replace any part which is found to be defective within the warranty period. This warranty extends only to the original purchasers who acquire new product from Neoz or its authorized resellers. In no event shall NEOZ be liable for any claim made outside the warranty period or for any other claims or damages' including but not limited to, claims for faulty design, negligent or misleading advice, incidental or consequential damages or injury to any other person, corporation or entity.

The warranty shall not apply where such repair or parts replacement is required because of accident, neglect or misuse, or where equipment is modified, installed or repaired otherwise than in accordance with NEOZ's maintenance and servicing instructions, or where any component or accessory not supplied by NEOZ is attached. This warranty does not include consumables such as Battery Packs or Light sources. Our battery manufacturers warrant their batteries to be free from defects in workmanship and material under normal use and service conditions for a period of one year after the original date of purchase. However this warranty does not warrant the effective life (length of service) of the battery since the effective life of a battery is primarily determined by the usage patterns and the quality and care given over the battery's lifetime.

All claims are limited to the repair or the replacement of the products only and do not include transportation charges.

### **Cordless Lamp Servicing**

As designers and manufacturers of the Cordless Lamp range NEOZ provides a complete replacement parts and servicing facility. Contact us:

20 Tepko Road  
Terrey Hills NSW 2084  
Sydney Australia

T +612 98105520  
F +612 95551054  
E [service@neoz.com.au](mailto:service@neoz.com.au)

or contact your Cordless Lamp supplier

# Specification

<b>LIGHT SOURCE OPTIONS</b>	12 V 5W G4 Halogen Frosted / Life: 4000+ hours 12 V 10W G4 Halogen Frosted / Life: 4000+ hours (Selected models) 12 V 1.1W G4 NEOZ LED / Life: 50,000+ hours
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<b>LIGHT TIME</b>	<b>Cordless Lamp PRO</b>			
	<b>Normal mode</b>	5W Halogen / 10W Halogen / 1.1W LED		
	Full Brightness	11 hours	/ 6 hours	/ 56 hours <sup>(1)</sup>
	Medium Intensity	17 hours	/ 9 hours	/ 104 hours <sup>(1)</sup>

### Cordless Lamp ECO

<b>Normal mode</b>	5W Halogen / 10W Halogen / 1.1W LED		
Full Brightness	-	/ -	/ 28 hours <sup>(1)</sup>
Medium Intensity	8 hours	/ -	/ 52 hours <sup>(1)</sup>
Low Intensity	14 hours	/ -	/ 130 hours <sup>(1)</sup>

<b>CHARGING TIME</b>	Cordless Lamp PRO	- 8.5 hours <sup>(2)</sup>
	Cordless Lamp ECO	- 4.5 hours <sup>(2)</sup>

<b>SWITCHING INTERFACE</b>	Switching controlled by a single-key membrane keypad. LED indicator showing battery charge level in 3 levels.
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<b>BATTERY</b>	Sanyo Lithium-ion 5200mAh rechargeable battery pack. Life: 1000+ cycles <sup>(3)</sup>
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<b>LAMP CONTROL</b>	NEOZ Cordless lamp Electronic Control System ver 4.0. Self diagnosis and monitoring system for lamp hardware and battery health. A built-in intelligent system for highly reliable battery recharging and light control with 3 different lighting modes switchable using the single-key keypad.
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<b>CHARGE STATUS DISPLAY</b>	Charging status represented by a single tri-colours LED indicator located on the Base Station.
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<b>WORKING CONDITION</b>	<b>TEMPERATURE</b>
	Charging: 0°C to 30°C
	Discharging: 0°C to 40°C

Storage: -10°C to 25°C

### HUMIDITY

Operation:	10% to 80% RH without condensation
Storage:	10% to 50% RH without condensation

<b>SAFETY / EMC</b>	The NEOZ Cordless Lamp is an inherently safe, extra-low voltage (SELV) device. The NEOZ Cordless Lamps, Base Stations and Chargers conform to all relevant Australian (C Tick), Canadian (CSA), US (FCC) (CE) and European class B EMC tests for both conducted and radiated emissions. RoHS Compliant.
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<b>CHARGER OPTIONS</b>	<b>Type:</b>	<b>15W Switch-Mode Power Supply</b>
	Input:	100V-240V 50Hz-60Hz 0.6A

Output: DC 15V 1A 15W

<b>Type:</b>	<b>50W Switch-Mode Power Supply</b>
Input:	100V-240V 50Hz-60Hz 1.2A
Output:	DC 15V 3.3A 50W

<b>Type:</b>	<b>120W Switch-Mode Power Supply</b>
Input:	100V-240V 50Hz-60Hz 1.8A
Output:	DC 15V 8A 120W

<b>IP</b> Intellectual Properties	NEOZ Cordless Lamps are covered by Design Registrations, Software Copyrights and Patent Pending.
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- (1) Figures shown are average light times for a fully charged battery and will vary with temperature and aging of battery.
- (2) Figures shown are average recharging times for a fully discharged battery and will vary with temperature and aging of battery
- (3) Average battery life from laboratory test results.

Visit us at [www.NEOZ.com](http://www.NEOZ.com) for the most comprehensive information and updates on the NEOZ Cordless Lamp Range.

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V4 08/2011

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