

|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

---

## Product Specification

PRODUCT NAME: LED eye-protecting desk lamp

PRODUCT NO: Hat Desk Lamp

VERSION NO : V 1.0

|             |         |                |  |
|-------------|---------|----------------|--|
| <b>ITEM</b> | ZW01-01 | <b>FEATURE</b> |  |
|-------------|---------|----------------|--|

东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

---

**Confirmation**

| <b>Prepared By:</b> | <b>Checked By:</b> | <b>Approved By:</b> |
|---------------------|--------------------|---------------------|
|                     |                    |                     |

**Change List**

| <b>Rev.</b> | <b>Description of Change</b> | <b>Operator</b> | <b>Changed Date</b> |
|-------------|------------------------------|-----------------|---------------------|
| 1.0         | Original Release             |                 |                     |
|             |                              |                 |                     |
|             |                              |                 |                     |

|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

---

## Product Catalog :

|  |   |
|--|---|
| 1. Features: .....                             | 4 |
| 2. Electrical/Optical Characteristics: .....   | 5 |
| 3. Notes: .....                                | 6 |
| 4. Product dimensions and functions: .....     | 8 |
| 5. Notes: .....                                | 9 |
| A. Installation instructions .....             | 9 |
| B. Cleaning and maintenance instructions ..... | 9 |

|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

---

## 1. Features:

- ◆ This product is an LED eye-care desk lamp, featuring high brightness, low attenuation, long lifespan, and high reliability.
- ◆ The light source of this product uses SMD2835 LEDs, with a color rendering index (CRI) greater than 95 and a color temperature range of 2700K to 6000K, allowing it to display the true colors of objects to the greatest extent. The lamp adopts a direct light emission method, with light being diffused through a diffuser plate, ensuring even and soft illumination. The light is comfortable for the eyes even when viewed directly, providing excellent eye-care benefits.
- ◆ This product features a unique appearance design and a reasonable structural layout, making it aesthetically pleasing and easy to install in various configurations.
- ◆ The product is equipped with a button control system that allows users to adjust the brightness and color temperature easily, providing convenient operation and selection of the most suitable lighting conditions.
- ◆ The lamp employs a high-quality heat dissipation design, maximizing the heat dissipation area. The surface temperature of the lamp housing remains below 50°C (when operating continuously in an ambient temperature of 25-30°C), significantly lower than that of traditional lamps under the same conditions, ensuring safer use.

|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

**东莞市正威电子科技有限公司**  
**DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD**

- ◆ The product uses high-quality LEDs with low light decay, low power consumption, high efficiency, and strong electrostatic resistance. It is energy-efficient, environmentally friendly, and has a lifespan of over 50,000 hours.
- ◆ This product is impact-resistant, environmentally friendly, and safe, making it a next-generation green lighting solution for safety and sustainability.

## 2. Electrical/Optical Characteristics:

|                         | Item                              | Description   |
|-------------------------|-----------------------------------|---|
| Input                   | Adapter Input Voltage & Frequency | AC100-240V 50/60Hz  |
|                         | Input Current                     | 1.2Amax at 100Vac input& Full load  |
|                         | Average Efficiency                | 82%min.@Nominal inpu  |
|                         | Power Factor                      | 0.4   |
|                         | Energy Consumption                | At rated input of 115-230V, the no-load power consumption is $\leq$ 0.3W  |
| Output                  | Output Voltage                    | DC 12V  |
|                         | Output Current                    | 3A Max  |
|                         | Turn-on Delay Time                | 3S max.@100Vac to 240Vac input&Full load  |
| Protection Requirements | Over Current Protection           | Over Current Point limited 4.8A (100-240Vac)  |
|                         | Short Circuit Protection          | The input power shall decrease when the output rail short, the power supply shall no damage, and shall be self-recovery when the fault condition is removed |

|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

|  |                                  |  |      |       |      |       |      |      |
|--|----------------------------------|--|------|-------|------|-------|------|------|
| LED Lamp<br>Optical<br>Characteristics | Lamp head length:<br>200mm       | White light  | (DC) | (W)   | (Ra) | (LUX) | (LM) | (K)  |
|  |                                  | Level 1 brightness   | 12V  | 10.18 | 94.6 | 1983  | 310  | 6169 |
|  |                                  | Level 2 brightness   | 12V  | 2.011 | 94.1 | 325   | 53   | 6159 |
|  |                                  | Yellow+white light   | (DC) | (W)   | (Ra) | (LUX) | (LM) | (K)  |
|  |                                  | Level 1 brightness   | 12V  | 9.524 | 94.3 | 1595  | 300  | 4007 |
|  |                                  | Level 2 brightness   | 12V  | 3.331 | 94.4 | 511   | 94   | 4003 |
|  |                                  | Yellow light   | (DC) | (W)   | (Ra) | (LUX) | (LM) | (K)  |
|  |                                  | Level 1 brightness   | 12V  | 9.973 | 90.9 | 1409  | 301  | 2743 |
|  |                                  | Level 2 brightness   | 12V  | 1.959 | 91.4 | 329   | 52   | 2731 |
|  | Illuminance test<br>distance(mm) | 300  |      |       |      |       |      |      |
| Lamp head<br>structure                 | Lamp head<br>dimensions(mm)      | L200*W90*H100  |      |       |      |       |      |      |
| Accessories                            | Adapter                          | 12V 3A, length: 1.8M, specifications: DC3513 male elbow (1PCS) |      |       |      |       |      |      |
|  | Hat LED light                    | 1 PCS  |      |       |      |       |      |      |
|  | Instruction manual               | 1 PCS  |      |       |      |       |      |      |

### 3. Notes:

1. Power temperature of the test error:  $\pm 0.2W$
2. Flux measurement error:  $\pm 5\%$
3. Beam angle measurement error:  $\pm 10\%$

### 4. Main Characterristics

| Number | Item       | Description                 |
|--------|------------|-----------------------------|
| 1      | Net Weight | 814g                        |
| 2      | LEDs       | 84PCS SMD 2835 Epistar chip |

|             |                |                |  |
|-------------|----------------|----------------|--|
| <b>ITEM</b> | <b>ZW01-01</b> | <b>FEATURE</b> |  |
|-------------|----------------|----------------|--|

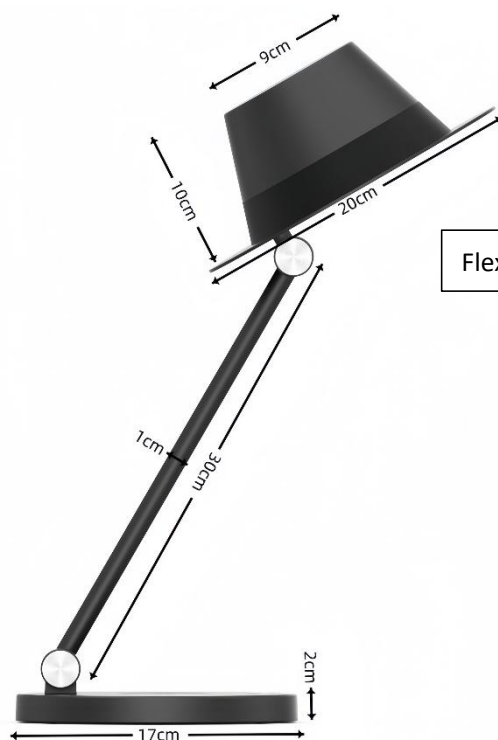
东莞市正威电子科技有限公司  
 DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

|    |   |  |
|----|---|--|
| 3  | Beam Angle                                  | 120°   |
| 4  | Irradiation Brightness                      | Adjustable(10%-100%)   |
| 5  | Rotation Angle                              | 360°   |
| 6  | Main Material                               | PC+ABS   |
| 7  | Certifications for whole lamp               | CE,RoHS,FCC  |
| 8  | Certifications for adapter                  | TUV,CE,ROHS UL,CUL,SAA,C-Tick,PSE,KC   |
| 9  | Operating Temperature and Relative Humidity | 0℃ — +40℃, 10%RH—90%RH   |
| 10 | Storage Temperature and Relative Humidity   | -20℃ — +80℃<br>5%RH to 95%RH non-condensing @ Sea level shall be low 2,000 meter   |
| 11 | Drop in testing                             | Height: 1m; the product should be fell off on the hardwood with the thickness of 20mm, and the hardwood should be put on the base of the cement or on the ground without flexibility. Apply two times on all surface. Apply two times on all corner. |
| 12 | Burn-in testing                             | The power supply shall be burn-in for 4 Hours under normal input and 80% rated load at 40℃ +/-5℃   |
| 13 | Lifetime                                    | Three years  |

|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

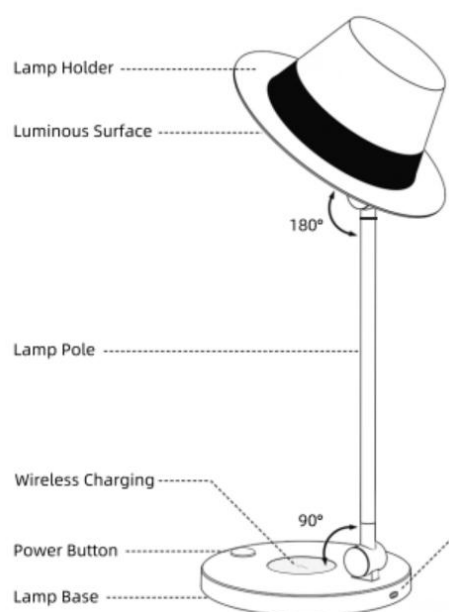
东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

#### 4. Product dimensions and functions:



Flexible design, can be rotated 180 degrees as required

Support position, fixed, rotatable 90 degrees





|      |         |         |  |
|------|---------|---------|--|
| ITEM | ZW01-01 | FEATURE |  |
|------|---------|---------|--|

东莞市正威电子科技有限公司  
DONGGUAN ZWEI ELECTRONIC TECHNOLOGY CO.,LTD

Button functions:



Wireless charging, put your electronics with wireless charging on it and it will charge.



Touch to adjust the colour temperature and infinity dimming, click the button to select from 3 different colour temperatures, long press this button for infinity dimming.



DC12V power input connector.

## 5. Notes:

### A. Installation instructions

- (1) Before installation, please check if the product has been damaged during shipping. If damaged, do not install and contact your local distributor.
- (2) The product must be kept away from open flames or high-temperature objects during installation and use.
- (3) Avoid staring directly at the LED light source for extended periods, and do not direct reflected LED light into others' eyes.

### B. Cleaning and maintenance instructions

- (1) Please turn off the power before cleaning the lamp.
- (2) Please do not use chemicals or corrosive substances to clean the lamp.
- (3) After cleaning the lamp, it must be completely dry before use.