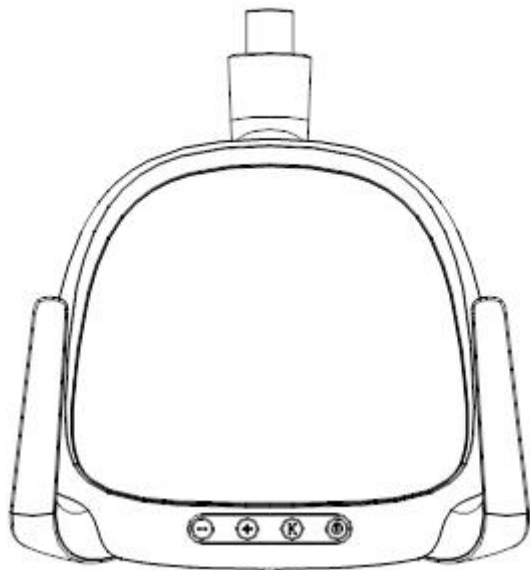**ESAY**®

User Manual of Dental Operating Lamp

INTRODUCTION

Please read the manual carefully and keep it properly for the check at any time before using the product. You must be strictly abiding by the operating rules, carry out cleaning and maintaining according to the methods listed in the manual when you use it.

To avoid the damages to the equipment, operators and the patients, you need to read the paragraphs carefully that marked "WARNING" or "ATTENTION".

Please contact the local distributor or our company in time if you meet the breakdown in using.

Safety Attentions

To reduce the damage of the equipment, fire, electric shock, personal injury, etc., please be sure to abide by the following basic safety precautions when using the product:
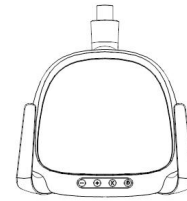
⚠ **Please turn off the main power supply before cleaning and maintaining.**

⚠ **Please do not put or hang any other heavy object on the equipment.**

⚠ **Please do not use or change the wires that do not meet the equipment requirements. Otherwise, it may even cause a fire or electric shock.**

⚠ **To avoid the danger of electric shock, please do not disassemble the equipment by yourself. Please contact the professional technician if the equipment needs to be repaired**
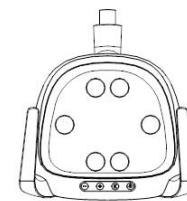
1. Product Description

1.1 Purpose of Use

This dental operating lamp is used to illuminate the treatment area during dental treatments.
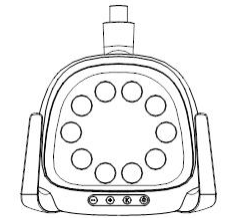
1.2 Product Diagram

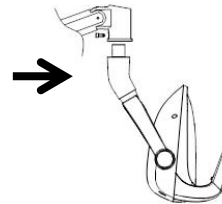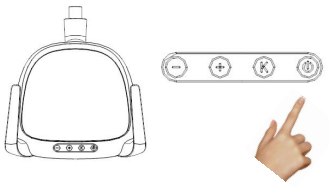|		
Picture 1	Picture 2	Picture 3
Reflective Type	6-hole Projective Type	10-hole Projective Type
Y100	Y200	Y300

2 . **Installing Instruction**

◆Plug the operating lamp power cord with the power cord terminal of the lamp arm, then insert the operating lamp shaft into the connector of the lamp arm and lock it in the M5 inner hexagonal bolt from the outside of the lamp arm connector, to make sure the operating lamp is firmly fastened with the lamp arm.

3. Operating Instruction
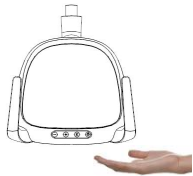
3.1 Operating Lamp "On" and "off"

◆When the lamp is "Off", cross quickly by hand from 5mm-60mm in front of the infrared sensor switch, the !amp will be turned on.

◆When the lamp is "On", cross quickly by hand from 5mm-60mm in front of the infrared sensor switch, the lamp will be turned off.

◆Or touch the power ⭕ switch on the panel directly to turn on or off the lamp.

3.2 Brightness Adjustment

◆When the lamp is in normal working mode, put the hand in front of the infrared sensor switch, the lamp will enter into the mode of brightness adjustment automatically in 2 seconds. The brightness changes gradually from the lowest to the highest. Moving your hand away from the infrared sensor switch When the brightness reaches the ideal state and the current brightness will be saved.

◆The color temperature mode can be switched by Ⓚ touching on the panel.

◆The intensity of brightness can be adjusted by touching ⊕ & ⊖ on the panel.

3.3 Brightness Memory Function

This dental operating lamp has a brightness memory function. When the lamp is turned off directly under the ideal state of the last normal using, when the lamp is using again,the brightness of the lamp will be automatically adjusted from the lowest brightness to the saved brightness as last time , no need to adjust the brightness again.
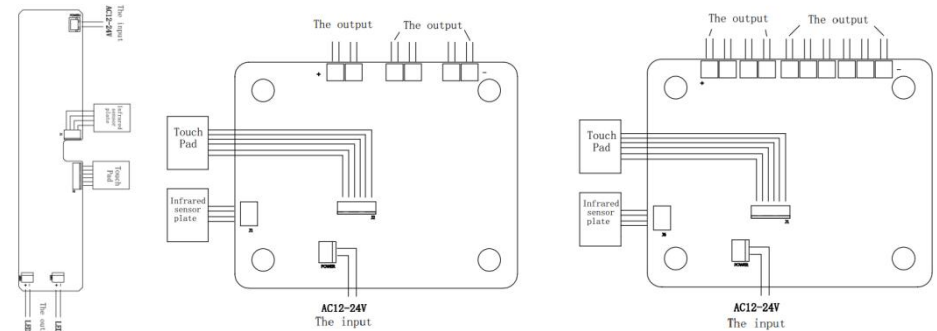
4. Maintaining and cleaning

4.1 To ensure the normal use and the safety performance of the operating lamp. The clinic staff should maintain and clean the operating lamp regularly. Please do not use corrosive detergents and disinfectants to clean the lamp and avoiding accidental damage to the lamp. Soft cloth and neutral cleaners or disinfectants can be used to clean the dust and the residues of the disinfectants of the lamp.

5. Circuit diagram

Picture 1: Reflective Type
Picture 2: 6-hole Projective Type
Picture 3: 10-hole Projective Type

6. Technical Specification

6.1 Storage and Transportation Environment

Temperature: -40℃- 70℃   Relative humidity: 10％－95％

Y100:
Brightness: 5000－29000LUX   CT: 5000 - 5700K
Y200:
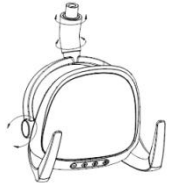Brightness: 7800－41000LUX   CT: 5000 - 5700K
Y300：
Brightness: 7800－57000LUX   CT: 5000 - 5700K

3.4   Angel Adjustment

This dental operating lamp adopts a three-position rotation

Design. The main angle X direction is adjusted by the rotation position on the upper joint. Each rotation angle is

180 degree. The main angle X direction can achieve 360

degree non-dead angle adjustment. The auxiliary angle Y

direction is adjusted by the rotation position on the handle.

The adjustable angle is 110 degree, which can fully meet the

needs of the user's treatment angle.

3.3   Assembling & Disassembling of the Handle Shell

◆When the operating lamp is off, press the button on the inside of the handle shell, gently pull the handle shell upward, then the shell can be removed for cleaning separately.

◆Insert the handle shell into the handle, the shell can be buckled up by the handle.

6.2   Working Environment

Temperature: 10 ℃ – 40 ℃   Relative humidity: 30％－ 85％

Barometric Pressure: 500－1060hpa   Waterproof grade: IPX 0

(NO special waterproof protection)

Input voltage: AC24V   Watts:Y100:10w，Y200:18w，Y300:30w

Spot size: 80×160MM(distance:700MM)   Frequency: 50/60Hz

Setting&adjustment: Inductive type brightness adjustment

7.   **Product Dimension**

Length 400mm× width 290mm×height 210mm

8.   Quoted Standard

YY/T1120-2009 (Odontology) Operating Lamp   （ISO9680:2014, MOD)

ZZ02 Implant LED lamp

1. Protection level : Power supply Ⅰ level protection design
2. Waterproof grade: IPX 0 (NO special waterproof protection)

3.Using Environment
Temperature: 10 ℃ – 40 ℃   Relative humidity: 30％－ 85％
Barometric Pressure: 500－1060hpa
Input voltage: AC12V–AC24V
Power 54VA

Safety information
Due to the very high illumination level of the LED light technology used in this product, prolonged exposure of the patient's or user's eyes to the light beam must be avoided. Short periods of direct exposure to the light beam are harmless.

4.Technical Specification
Illumination ≤7000lux ≥100000lux
CT: 4000K–5700K
Colour rendering index Ra＞90%
Control mode Infrared sensor control／manual control

5. Working mode: Continuous working mode
6. Net weight 2400g

7. Working environment
Temperature：5–40℃
Relative humidity：30–75%
Atmospheric pressure：70–106Kpa
Storage and transport
Transport temperature: –25–70℃
Relative humidity: 0–+93%
Atmospheric pressure: 50–106Kpa

8.Operating Instructions
8.1 Swipe your hand over the sensing point (within 10cm) to switch on or off the oral LED light.
8.2 Touch the power switch to turn on or turn off the oral LED light.
8.3 When the oral LED light is on, the hand stops within the effective range of the sensing area, the illumination of the oral light can be automatically adjusted.
8.4 Touch the K key to select the appropriate colour temperature.
8.5 Slide the upper illumination adjustment bar to adjust the illumination of the oral light.
8.6 When the oral light is off, the system will automatically store the illumination and colour temperature used for the next time when it is turned on.
8.7 The lamp body uses three axes to rotate, and can be adjusted to the appropriate level according to the usage habits by means of the handle.