

# CARE OPTICAL INDUSTRIAL CO., LTD.

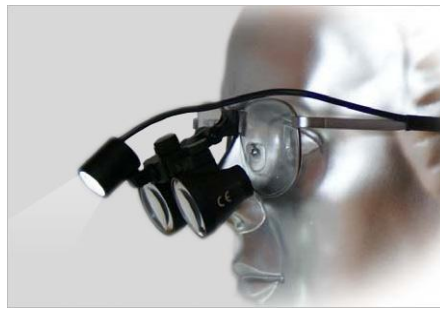
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## Surgical LED headlight catalog

### 1. Portable LED headlight H60 1W



#### Description

The Brightest illumination intensity(32000LUX),

The Lightest weight: 11g

The Longest operating time:7hours,

The smallest size: Dia. 1.9x2.1cm,

#### Specification

Light Source: **1 w** LED-high efficiency & saving energy,

Light Highest Illumination intensity: Full variable intensity control,

Brightness :Up to 32,000Lux@ feet, Brightness is adjustable, light spot size is not adjustable

Continually Operating Time: Up to 7 hours (highest in the first level output)-longest,

Color Temperature: 6000 K(pure white),

Illumination Spot Size: 7 cm @ 40mm(appropriate),

Light Head Weight: 11g (including mount, not including wire, lightweight),

Light Head Diameter: 1.9cm, Light Head Length: 2.1cm(very small size),

Battery: 2x1400mAh Rechargeable Lithium-Polymer Cells(only OEM for Japanese brand),

Battery Lifetime: Approximately 500 charge/discharge cycles(high performance),

Battery Case Weight: 113g(lightweight),

Battery Case Dimensions: 7.5cm x 5.2cm x 2.1cm(small size),

Battery charger: 1000mAh, 100-240V AC/50-60 Hz (adapter for all of the world power supply),

Battery Charge Time: 90 minutes for 90% charge(very quick),

Warranty: 1 year limited warranty(add cost, extend to be 2 years limited warranty).

#### Feature.

With our surgical LED Headlight H60 , you'll experience enough brightness, shadow-free, long-lasting illumination with unrestricted mobility that enables you to work with precision while enjoying complete comfort, and improves overall ergonomics.

Our led dental headlight's high edge-to-edge clarity, pure white beam to aid in dental color matching techniques, and hands-free operation, let you focus on your procedures, and allows you to go from patient to patient, without being tied down. While the powerful yet lightweight Lithium-Polymer battery system (only OEM for Japanese brand) provides working hours of uninterrupted user several dentists use it continuously in the whole of working day.

Portable LED headlight H60 packing includes universal clips parts, it can be attached in various kind of Eyewear frames and binoculars loupes.

**standard packing includes** : AC adapter, battery, accessory kits, LED lamp and connection. Manual.

## 2. Headband LED headlight H70 4W



### Description

Brightest 42,000LUX @ 40cm, 60000Lux@250mm

The Lightest weight(with headband):70g

The Longest operating time:>5 hours,

### Specification

Light Source: **4 w** LED-high efficiency & saving energy,

Light Highest Illumination intensity: Full variable intensity control,

Brightness :Up to60,000Lux@ feet, Brightness is adjustable, light spot size is adjustable.

Light adjustable: (up/down adjustable. Right/left adjustable)

Continually Operating Time: more 5 hours

Color Temperature:6000 K (pure white),

Illumination Spot Size: 7.5cm @ 40mm, (20mm-100mm adjustable)

Light Head Weight: 70 g (including light and headband),

Length of cable: 1.5m ( fiber-optical cable)

Weight: approx 70g

Operation time: 5 hours

Light source: 4W Powerful white LED'S

Light source Life: 50000 Hours

Color Temperature: 6000K (CRT),purely with light

Surface Temperature In use: 50°C (Ambient temperature 25°C)

### Battery and battery pack

Input: 12VDC, >1.0A

Output: Variable, 7.2+1,2VDC

Weight: 180g

Dimensions : 108\*68\*25 (mm)

Duration of use: 5 hours at full load  
Charging time: 4 hours  
Battery efficiency: >90, ASIC  
Battery Type: Rechargeable Polymer Li-ion Cells  
Battery Capacity: 7.4V 2300 mAh  
Battery Life: 500 Charge/Discharge cycles  
Battery Protection: Against over-charge and over-discharge

**Battery adaptor:**

Input: 100-240VAC/ 50-60Hz ,0.3a  
Input AC plug: wall plug  
Output : 12VDC,>1.0A  
Output DC Plug: 6.5\*4.3\*1.4\*9,5 S type  
Length of Cable: 3.0m  
Applicable standard: UL/CUL/FCC/PSE/CE

Very quiet without fan, because of new hot emit technology,

**Packing and packing including:** stronger paper box packing. Adaptor, Battery, LED headlight with headband And cable, accessory kits, manual

### 3.super high quality surgical LED headlight H80 3W



Best Dental LED Headlight - H80 headband with a adapter for any binocular loupes, "illumination & Ergonomics"

**LED light**

Brightest:45, 000LUX @ 40cm, 70000Lux@250mm  
Light spot size 7.5cm @ 40mm, (20mm-100mm adjustable)  
Longest operating time > 5 hours,  
Length of cable: 1.5m  
Weight: approx 70g  
Operation time: 5 hours  
Light source: 3W Powerful white LED'S  
Light source Life: 30000 Hours  
Color Temperature: 6000K (CRT),purely with light  
Surface Temperature In use: 50°C (Ambient temperature 25°C)

**Battery and battery pack**

Input: 12VDC, >1.0A  
Output: Variable, 7.2+1,2VDC  
Weight: 180g  
Dimensions : 108\*68\*25 (mm)  
Duration of use: 5 hours at full load  
Charging time: 4 hours

Battery efficiency: >90, ASIC  
Battery Type: Rechargeable Polymer Li-ion Cells  
Battery Capacity: 7.4V 2300 mAh  
Battery Life: 500 Charge/Discharge cycles  
Battery Protection: Against over-charge and over-discharge

**Battery adaptor:**

Input: 100-240VAC/ 50-60Hz ,0.3a  
Input AC plug: wall plug  
Output : 12VDC,>1.0A  
Output DC Plug: 6.5\*4.3\*1.4\*9,5 S type  
Length of Cable: 3.0m

Applicable standard: UL/CUL/FCC/PSE/CE

Similar as HEINE 3S LED Head Light,

But brighter and bigger and uniformity light spot than it.

Our 3W Dental LED Headlight is longer lifetime than any 5W Dental LED Headlight,

Very quiet without fan, because of new hot emit technology,

Much more inexpensive than any brand.

**Feature.**

With our Dental LED Headlight, you will experience enough brightness, co-axial, shadow-free, long-lasting illumination with unrestricted mobility that enables you to work with precision while enjoying complete comfort, and improves overall ergonomics.

Our Dental LED Headlight is high edge-to-edge clarity, pure white beam to aid in dental color matching techniques, and hands-free operation, let you focus on your procedures, and allows you to go from patient to patient, without being tied down.

While the powerful yet lightweight Lithium-Polymer battery system provides working hours of uninterrupted use or several dentists use it continuously in the whole of working day.

Mounting clip on any other binocular loupes or eyeglass frame.

**Packing and including:** Hard ABS suit case, LED headlight with headband , battery, adaptor charger, accessory,

## 4. Headband LED headlight KD202A-2 3W



### specification

USING The rechargeable lithium battery, longevity of service and the more comfortable lightweight headlights, it is suitable for all kinds of surgical operation.

Technical Specification

Items No: KD-202A-2

Light Source: 3 w LED-high efficiency energy

Light Highest Illumination intensity: >12,000 LUX

Continually Operating Time: up to 7 hours

Illumination Spot Size: can be adjustable (ex: for 10mm to 110mm for 420MM working distance)

Illumination angle : can be adjustable .

The lifetime of bulb: 20,000hours

Color temperature: 6000K

Charge Voltage: AC110V/220V DC 3.4V

The weight of headlamp: 80g

packing weight (with the headband and battery and charge Voltage) : 720g

packing material: paper box

packing size: 24x16x15cm

this style (KD-202A-2) is portable LED headlight with headband. Also can mount our loupes on the headband. The field of lighting area are adjustable.

KD-202A-2 is edge-to-edge clarity, pure white beam to aid in dental color matching techniques, and hands-free operation, let you focus on your procedures, and allows you to go from patient to patient, without being tied down.

**Standard packing Include** : headband LED light, battery rechargeable, AC adapter

## 4. Headband LED headlight KD202A-6 5W



### Description

USING The rechargeable lithium battery, longevity of service and the more comfortable lightweight headlights, it is suitable for all kinds of surgical operation.

Technical Specification

Items No: KD-202A-6

Light Source: 3 w LED-high efficiency energy (pure white)

Light Highest Illumination intensity: >22,000 LUX

Continually Operating Time: up to 5 hours

Illumination Spot Size: can be adjustable (ex: for 10mm to 110mm for 420MM working distance)

Illumination angle : can be adjustable .

The lifetime of bulb: 25,000hours

Color temperature: 6000K

Charge Voltage: AC110V/220V DC 3.4V

The weight of headlamp: 85g

packing weight (with the headband and battery and charge Voltage) : 725g

packing material: stronger paper box

packing size: 24x16x15cm

this style (KD-202A-6) is LED headlight with headband. The light spots size is adjustable and light angle is adjustable (up and down)

KD-202A-2 is edge-to-edge clarity, pure white beam to aid in dental color matching techniques, and hands-free operation, let you focus on your procedures, and allows you to go from patient to patient, without being tied down.

**Standard packing Include** : headband LED light, battery rechargeable, AC adapter

## 5. Portable LED headlight YH-001



the light weight is **lighter designing, small size. the brightness is adjustable.** the spot size is not sharp edge. this kind of LED headlight is also good quality and Economic style. **it can be attached on our Flip Up style loupes and TTL style loupes.** and the price is lower than other style.

**power of bulb: 1W**

Light head Housing material Special Aluminum

Light head size Diameter 20mm, length 25mm

Light head weight 7g

Light source 2.65w Light Emitting Diode (LED)

LED color temperature 6,000K (CCT) purely white light

LED operating life 10,000 hours (estimated life, dependent on intensity used)

Highest illumination intensity full variable intensity control

Up to 23,000-30,000Lux@feet (the second level)

### **Battery and battery Pack**

Battery pack housing material Special Aluminum

Battery pack weight 90g (including battery)

Battery pack dimensions 85mm X 60mm X 13mm

Battery type 7.4V, 1400mAh, advanced rechargeable polymer Li-Ion cells

Charge time approximately 2 hours for a full charge. LED can be used while charging

Battery life up to 500 charge/discharge cycles (Approximately 2 years)

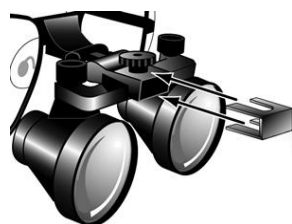
Consistent Output regulated power supply

High battery output efficiency >90 , professional driver control chip

Battery run time at full load of first level is approximately 5-7 hours,

Battery adapter Input: 100-240VAC/50-60Hz, output: 8.6 VDC 1000mA

## **5. Portable LED headlight YH-002**



the light weight is **lighter designing, small size. the brightness is adjustable. the spot size is edge-to edge.** this kind of LED headlight is also good quality and Economic style. **it can be attached on our Flip Up style loupes and TTL style loupes.** and the price is lower than other style.

Smallest size, lighter weight, brightest illumination, longest operating time. Easy Light Vario has reformed all the LED portable headlights. Easy Light Vario uses a professional patented optic lens and thermal management technology that produces amazing brightness and provides superior quality and reliability. Easy Light Vario offers exceptional innovation, style and value in magnification and illumination. Easy Light Vario offers modular solutions for optics, frames and portable LEDs to satisfy the needs in the dental and medical marketplace.

## **LED Headlight**

### **power of bubl: 1W**

Light head housing material Special Aluminum

Light head size Diameter 20mm, length 35 mm

Light head weight 14g

Light source 2.65w Light Emitting Diode (LED)

LED color temperature 6,000K (CCT) purely white light

LED operating life 10,000 hours (estimated life, dependent on intensity used)

Highest illumination intensity full variable intensity control

Up to 23,000-30,000Lux@feet

### **Battery and battery Pack**

Battery pack housing material Special Aluminum

Battery pack weight 90g (including battery)

Battery pack dimensions 85mm X 60mm X 13mm

Battery type 7.4V, 1400mAh, advanced rechargeable polymer Li-Ion cells

Charge time approximately 2 hours for a full charge. LED can be used while charging

Battery life up to 500 charge/discharge cycles (Approximately 2 years)

Consistent Output regulated power supply

High battery output efficiency >90 , professional driver control chip

Battery run time at full load of first level is approximately 5-7 hours,

Battery adapter Input: 100-240VAC/50-60Hz, output: 8.6 VDC 1000mA