



zumax

Zumax Medical
Beyond Vision

CE FDA



- **Medical Headlight**
- **Binocular Loupes**



HL8000 Headlight

- ▶ Light Source: Our LED lamp has no heat of traditional Halogen headlight. With a color temperature of 5000 Kelvin, it supplies bright, white, shadow-free light allowing the doctor to see tissue characteristics without distortion.
- ▶ Continuously adjustable spot size and brightness control.
- ▶ Enjoy the flexibility of operating the headlight using the rechargeable Lithium battery, it works without the direct power source. It is one of the most comfortable lightweight headlights and suitable for all kinds of surgery.
- ▶ The headlight could be used when it is charging.
- ▶ Battery Power indicator.
- ▶ Adapts to any Binocular Loupes of Zumax.
- ▶ Smart design, convenient for mobile diagnosis.
- ▶ Optional yellow filter reduces blue light, prevents premature curing of composite.

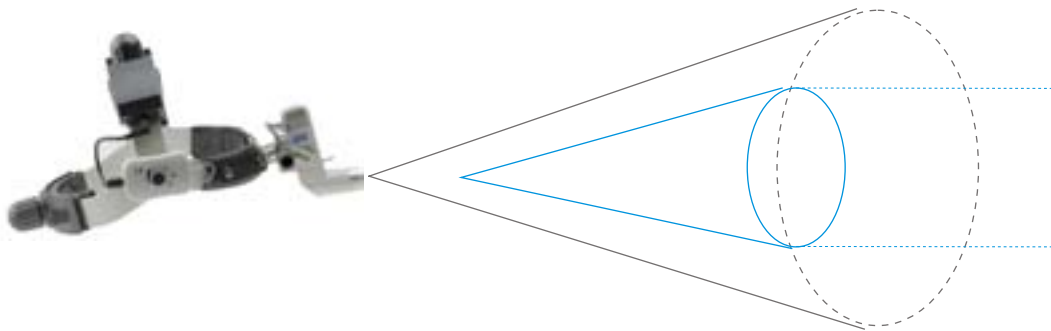
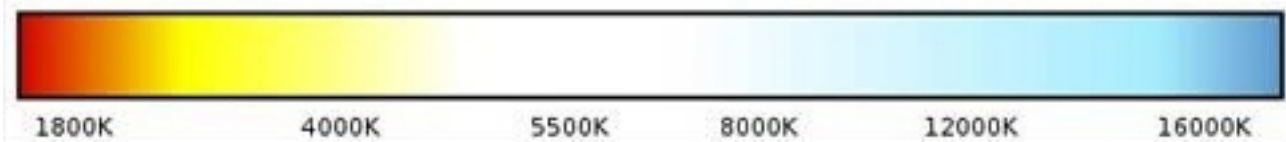




6500K



5000K



	With Portable Battery Pack	With Wireless Battery Pack
Optical Specification		
Diameter of the light spot at a distance of 420mm	20-80mm	20-80mm
Illumination at 200mm working distance	>50000 Lx	>50000 Lx
Adjustable Range		
Fluctuation distance	12.5mm	12.5mm
Direction of Illumination	Vertical $\pm 25^\circ$ adjustable	Vertical $\pm 25^\circ$ adjustable
Weight		
Head lamp (excluding headband)	69g	69g
Electrical specifications		
Illumination Source	Extremely bright light, 5W LED, life 20,000 hours continuous burn	Extremely bright light, 5W LED, life 20,000 hours continuous burn
Battery	7.4V Lithium battery 4600mAh	7.4V Lithium battery 1800mAh
Battery Run-time	> 8 hours	>3 hours
Input voltage	100-240VAC	100-240VAC
Maximum Power input	15VA	24VA
Electrical Safety standard	IEC60601. 1, class II equipment	IEC60601. 1, class II equipment



Order Information

555-0010	HL8000 headlight, with white 4600mAh battery head-set socket, longer spring cable, power adapter, metal case
556-0080	Wireless HL8000 headlight Set, with wireless battery pack, wall mount charger, a short cable, power adapter, metal case
552-9050	White Battery, 7.4V 4600mAh for HL8000 headlight, headphone jack
556-9080	Wireless HL8000 battery, 7.4V 1800mAh
556-9190	Wall Mout / Desk Charger for wireless headlight
980-123X	12V 2A Power adapter for charger, for wireless headlight
980-122X	12V 1.25A Power adapter for charger, for headlight
552-9048	Spring cable with headphone jack, long
552-9083	Cable with headphone jack, Short, for wireless headlight



555-0010



556-0080

Vertical depth adjustment of the headband

Head circumference adjustment



Light spot adjustment

Brightness Control

Clinical application: the examination and operation of the Dept. Of Oral cavity, ENT, Gynaecology and so on.



HL8300 Headlight



HL8300 Headlight (excluding the binocular loupes)



2300 mAh Battery Pack



with Loupes



with headband



Wireless headlight

- Light Source: Our LED lamp has no heat of traditional Halogen headlight. With a color temperature of 5500 Kelvin, it light supplies bright, white, shadow-free light allowing the doctor to see tissue characteristics without distortion.
- Homogenous illumination of the whole field of view.
- Enjoy the flexibility of operating the headlight using the rechargeable Lithium battery, it can work without the direct power source. It is one of the most comfortable lightweight headlights and suitable for all kinds of surgery.
- The headlight could be used when it is charging.
- Low-battery indicator light.
- Optional adapts to any Binocular Loupes of Zumax, Gallilei, Zeiss, Orascophic TTL, Orascophic Flip Up, Grendel Meier and Heine.
- Yellow filter reduces blue light, prevents premature curing of composite.
- Smart design, convenient for mobile diagnosis.

	With Portable Battery Pack	With Wireless Battery Pack
Optical Specification		
Illumination at 200mm working distance	>35000 Lx	>35000 Lx
Adjustable Range		
Direction of Illumination	Vertical ±25° adjustable	Vertical ±25° adjustable
Weight		
Head lamp	21g	21g
Electrical specifications		
Illumination Source	Extremely bright light, 3W LED, life 20,000 hours continuous burn	Extremely bright light, 3W LED, life 20,000 hours continuous burn
Battery	Lithium battery 7.4V 2300mAh	Lithium battery 7.4V 1800mAh
Battery Run-time	> 9 hours	> 4.8 hours
Input voltage	100-240VAC	100-240VAC
Maximum Power input	14VA	24VA
Electrical Safety standard	IEC60601.1, class II equipment	IEC60601.1, class II equipment



HL8200 Headlight



HL8200 Headlight (excluding the binocular loupes)



2300 mAh Battery Pack



With TTL Loupes

- ▶ Light Source: Our LED lamp has no heat of traditional Halogen headlight. With a color temperature of 5000 Kelvin, it supplies bright, white, shadow-free light allowing the doctor to see tissue characteristics without distortion.
- ▶ Homogenous illumination of the whole field of view.
- ▶ Enjoy the flexibility of operating the headlight using the rechargeable Lithium battery, can use without the direct power source. It is one of the most comfortable lightweight headlights and suitable for all kinds of surgery.
- ▶ The headlight could be used when it is charging.
- ▶ Low-battery indicator light.
- ▶ Optional adapts to any Binocular Loupes of Zumax
- ▶ Yellow filter reduces blue light, prevents premature curing of composite.
- ▶ Smart design, convenient for mobile diagnosis.

	With Portable Battery Pack	With Wireless Battery Pack
Optical Specification		
Illumination at 200mm working distance	>30000 Lx	>30000 Lx
Adjustable Range		
Direction of Illumination	Vertical $\pm 25^\circ$ adjustable	Vertical $\pm 25^\circ$ adjustable
Weight		
Head lamp	12g	12g
Electrical specifications		
Illumination Source	Extremely bright light, 3W LED, life 20,000 hours continuous burn	Extremely bright light, 3W LED, life 20,000 hours continuous burn
Battery	Lithium battery 7.4V 2300mAh	Lithium battery 7.4V 1800mAh
Battery Run-time	> 9 hours	> 6 hours
Input voltage	100-240VAC	100-240VAC
Maximum Power input	14VA	24VA
Electrical Safety standard	IEC60601. 1, class II equipment	IEC60601. 1, class II equipment

Headlight and loupes combined set



HL8000 Headlight combined with SLE Binocular Loupes



Wireless HL8000 Headlight combined with SLE Binocular Loupes



HL8300 Headlight combined with SLH Binocular Loupes



Wireless HL8300 Headlight combined with SLE Binocular Loupes



SLT Binocular Loupes with Wireless HL8300 Headlight



HL8300 Headlight combined with SLF Binocular Loupes



HL8300 Headlight combined with SLE Binocular Loupes



HL8200 Headlight combined with SLH Binocular Loupes



Wireless HL8200 Headlight combined with SLE Binocular Loupes



HL8200 Headlight combined with SLF Binocular Loupes



HL8200 Headlight combined with SLE Binocular Loupes



HL8200 Headlight combined with SLT Binocular Loupes (Sport Frame)



HL8200 Headlight combined with SLT Binocular Loupes (Titanium Frame)

▶ SLT TTL Binocular Loupes

- ▶ 2.5 and 3.0 magnifications available
Extremely high resolution
- ▶ Precise Optics
- ▶ Custom Fit and Custom Working Distance
- ▶ Greatest Brightness and Depth of Field
- ▶ Ultra-lightweight, as little as 2 oz.(57g)
(including the frame).



Specification :

Magnification	Working distance	Field of view
2.0x	340mm/13"	60mm/2.4"
2.0x	420mm/17"	70mm/2.8"
2.0x	460mm/18"	80mm/3.1"
2.0x	500mm/20"	95mm/3.8"

Magnification	Working distance	Field of view
2.5x	340mm/13"	60mm/2.4"
2.5x	420mm/17"	70mm/2.8"
2.5x	460mm/18"	80mm/3.1"
2.5x	500mm/20"	95mm/3.8"

Magnification	Working distance	Field of view
3.0x	340mm/13"	40mm/1.6"
3.0x	420mm/17"	46mm/1.8"
3.0x	460mm/18"	50mm/2.0"
3.0x	500mm/20"	54mm/2.1"



All lenses are multi-coated and anti-reflective, combining with infinity corrected optical system.



Soft silicone nose pad.



1. Sport Frame, three colors for your optional.
2. Aluminium magnesium alloy Frame, black

Two kinds of frames for your option which provides the best comfort at work.



All loupes include a protective hard case, microfiber wipe cloth, neck strap.

▶ SL Series Binocular Loupes



SLF Binocular Loupes
(with sport frame)



SLE Binocular Loupes
(with Titanium frame)



SLH Binocular Loupes
(with headband)

- ▶ Multi-coated, high grade glass lenses produce crisp, clear images.
- ▶ The Loupes which employ eyepiece of very large view field diameter. The depth of focus is deep and object can be seen stereoscopically with actual feeling of distance.
- ▶ The angle of the loupes can be adjusted between $0^{\circ}\sim 40^{\circ}$ with ease and fatigue is minimized even after prolonged use.
- ▶ 6mm up and down displacement. Pupil distance can be adjusted individually which could be suited for all kind of faces.
- ▶ Adapts to headlight of Zumax.
- ▶ Smart design, convenient for mobile diagnosis.

Magnification	Working distance	Field of view
2.5x	340mm	80mm
2.5x	420mm	100mm
2.5x	460mm	110mm
2.5x	500mm	120mm

Magnification	Working distance	Field of view
3.0x	340mm	70mm
3.0x	420mm	84mm
3.0x	460mm	92mm
3.0x	500mm	100mm

Magnification	Working distance	Field of view
3.5x	340mm	60mm
3.5x	420mm	72mm
3.5x	460mm	78mm
3.5x	500mm	84mm



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