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DENTAL | BINOCULAR LOUPES
MEDICAL HEADLIGHTS

BORN FOR THE CLINIC PRACTICE

PRECISE TREATMENTS BEYOND VISION

- Effectively prevent and alleviate common occupational diseases among doctors.
- Optimize clinical operation obstacles caused by refractive issues.
- High clarity and high resolution to help improve clinical treatment outcomes.
- Enhance the patient trust by professional gesture.

ADVANTAGES

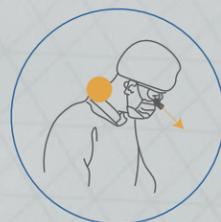
- Suitable for endodontics, periodontics, prosthetics, implants and other minimally invasive procedures.
- Aspherical objective lens design, offering excellent optical performance, wide field of view, long depth of field, and high resolution to ensure a professional visual experience.
- Multi-layer coating technology and apochromatic design provide anti-reflective and anti-glare functions.
- Equipped with anti-fog and anti-mold properties, ensuring 99.5% high optical transmittance.
- Ergonomic design ensures doctors can perform in a healthy posture, guarding occupational health.

DFK AIR MORE CLEAR MORE LIGHT

PRECISE TREATMENTS BEYOND VISION



Without loupes
22kg



Traditional loupes
18kg



DFK Binocular Loupes
4.5kg

• **45° PRISM ANGLE DESIGN**

Innovative Optical

Clear imaging across the field of view, with no distortion at the edges, ensuring a wide field of view and excellent depth of field, for unobstructed visibility.

• **UNOBSTRUCTED VISIBILITY**

Maximizes comfort and concentration and reduces eye fatigue.

• **ERGONOMIC DESIGN**

Significantly improving the head-down working posture, the natural upright level vision can obtain a wider surgical field of view.

OPTIONAL FRAME COLORS



Magnification	Weight	Field of View Diameters 400mm-550mm
4.0x	78g	93mm-128mm

DFK DEFLECTION SURGICAL LOUPES

OPTIONAL FRAME COLORS



- **48° PRISM ANGLE DESIGN**

Adopting prism lens group design.
Innovative optical systems.
The field of view diameter is much larger than traditional surgical loupes.

- **PARALLEL LINE OF SIGHT DESIGN**

Minimize eye fatigue caused by concentrated of sight and improve working efficiency.

- **GUARDING OCCUPATIONAL HEALTH**

By prism optical design deflectable light helps enlarged working sights with ergonomics.

- **EXCELLENT ADJUSTABLE FEATURES**

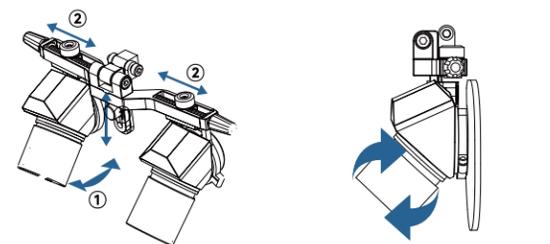
Adjust working distance continuously.
Free to adjust on Eye Point, pupillary distance and working distance.
Free switching normal and enlarged sights without leaning.



Without loupes
22kg

Traditional loupes
18kg

DFK Binocular Loupes
4.5kg



① Adjustable eye Point

Adjustable working distance

② Adjustable pupillary distance (PD)

Magnification	Weight	Field of view diameters corresponding to working distances of 400mm-550mm
3.0x	91g	93mm-134mm
4.0x	94g	76mm-104mm
5.0x	96g	64mm-88mm

SLT TTL BINOCULAR LOUPES (COLORFUL)

PRECISE TREATMENTS BEYOND VISION

- Sports frame, suitable for various head sizes, high adaptability, lightweight.
- Excellent optical design, large exit pupil design, Galilean optical system, reduced distortion, high resolution.
- Custom-made according to PD, refractive error, and visual angle, ensuring a perfect match with the doctor's individual vision and work habits.



TITANIUM FRAME

Magnification	Weight	FIELD OF VIEW DIAMETERS				
2.5x	57g	340mm	420mm	460mm	500mm	550mm
		90mm	105mm	115mm	125mm	130mm

COLORS
 frame gray+tubes blue
 frame gray+tubes green

ADJUSTABLE PD
 50mm-75mm



SPORTS FRAME

Magnification	Weight	FIELD OF VIEW DIAMETERS				
2.5x	57g	340mm	420mm	460mm	500mm	550mm
		90mm	105mm	115mm	125mm	130mm

COLORS
 frame gray+tubes blue
 frame red+tubes blue
 frame brown+tubes green

OPTIONS OF PD
 S -60(58-62)
 M-64(62-66)
 L -68(66-70)

SLH BINOCULAR LOUPES (KEPLER OPTICS 4X 5X 6X)

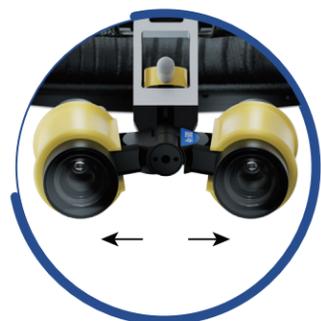
PRECISE TREATMENTS BEYOND VISION

- Provides high magnification and fine imaging, with adjustable PD of 45–65mm, ensuring clear images during surgery.
- Independently adjustable structure design makes it easy to wear and operate, with height and angle freely adjustable.
- The key-lock lever is equipped with a magnetic wireless headlight interface.
- Convenient to use without removing glasses.

Magnification	FIELD OF VIEW DIAMETERS			
	340mm	420mm	460mm	500mm
4.0x	55mm	65mm	75mm	85mm
5.0x	45mm	55mm	60mm	65mm
6.0x	40mm	47mm	50mm	58mm



Vertical displacement knob



Adjustable PD



Magnetic connector



The key-lock lever



Infection control shield

SLT TTL BINOCULAR LOUPES (KEPLER OPTICS)

PRECISE TREATMENTS BEYOND VISION

- Custom-made to perfectly match the doctor's individual vision requirements, including pupillary distance, diopters, ensuring complete compatibility with their personal eyesight and work habits.
- Utilizes a Kepler optic design with apochromatic lenses, ensuring edge distortion-free imaging.



SPORTS FRAME

Magnification	Weight	FIELD OF VIEW DIAMETERS			
		340mm	420mm	460mm	500mm
4.0x	75g	50mm	60mm	70mm	80mm
5.0x	75g	40mm	50mm	60mm	70mm



TITANIUM FRAME

Magnification	Weight	FIELD OF VIEW DIAMETERS			
		340mm	420mm	460mm	500mm
4.0x	80g	50mm	60mm	70mm	80mm
5.0x	80g	40mm	50mm	60mm	70mm

SLK BINOCULAR LOUPES

PRECISE TREATMENTS BEYOND VISION

- The flip-up design allows for quick reuse after an initial adjustment, making it an ideal choice for first-time loupes users.
- Easy to adjust and wear, offering a comfortable and wide field of view.
- The single-handed, synchronized PD adjustment allows for free adjustment of PD and optical tube angle, achieving precise focusing.



Magnification	FIELD OF VIEW DIAMETERS			
	340mm	420mm	460mm	500mm
2.5x	80mm	100mm	110mm	120mm
3.0x	70mm	85mm	95mm	105mm
3.5x	60mm	75mm	85mm	95mm

Adjustable PD: 46mm-82mm



SLT TTL BINOCULAR LOUPES

PRECISE TREATMENTS BEYOND VISION



TITANIUM FRAME

- 2.5x and 3.0x magnifications available extremely high resolution.
- Precise optics, multi-coated lenses and anti-reflective
- Soft silicone nose pad.
- Custom fit and custom working distance.

		FIELD OF VIEW DIAMETERS			
Magnification	Weight	340mm	420mm	460mm	500mm
2.5x	57g	70mm	80mm	90mm	100mm
3.0x	57g	60mm	70mm	80mm	90mm



SPORTS FRAME

		FIELD OF VIEW DIAMETERS			
Magnification	Weight	340mm	420mm	460mm	500mm
2.5x	57g	70mm	80mm	90mm	100mm
3.0x	57g	60mm	70mm	80mm	90mm

SLH BINOCULAR LOUPES (WITH HEADBAND)

- Independent PD adjustment, vertical position adjustment, and a secondary hinge adjustment mechanism, facilitating binocular field fusion.
- The headband design ensures stability and effectively, reduces shoulder and neck fatigue.
- Convenient to use without removing glasses, making it an ideal choice for first-time loupes users.

DENTAL LOUPES



FIELD OF VIEW DIAMETERS				
Magnification	340mm	420mm	460mm	500mm
2.5x	80mm	100mm	110mm	120mm
3.0x	70mm	84mm	92mm	100mm
3.5x	60mm	72mm	78mm	84mm

HL8300/HL8200 MEDICAL HEADLIGHTS

- **Medical-grade LED light source** with a color temperature of 5000K, CRI >90, ensuring true-to-life color reproduction. The light spot is clear and smooth, with adjustable brightness.
- **Ergonomic design** for comfortable wear, lightweight and portable. The doctor's binocular vision and the lighting are almost coaxial, illuminating the exact area of vision, achieving unobstructed deep illumination along the visual axis.
- **Smart rechargeable lithium battery**, Dual use (AC/DC), with built-in charging protection. Battery can withstand up to 500 times without noticeable energy degradation.
- **LED bulb with an ultra-long lifespan of 20,000 hours**, far exceeding the lifespan of traditional medical halogen and xenon light sources.
- **Yellow filter**, effectively reduces blue light, preventing light curing in dental procedures.



HL8300 Medical Headlight



HL8200 Medical Headlight

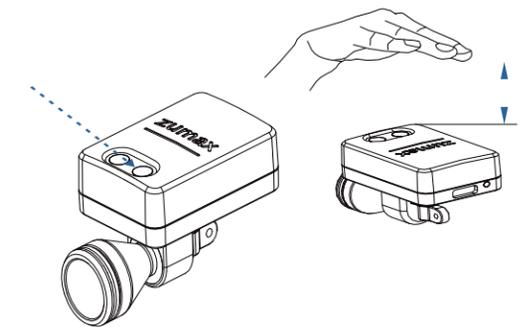
CONFIGURATION	HL8300 Parameters	HL8200 Parameters
LIGHT SOURCE BULB	Enhanced white LED, lifespan 20,000 hours	Enhanced white LED, lifespan 20,000 hours
DIAMETER OF ILLUMINATION SPOT AT 420MM (±10%)	Maximum Spot Diameter	80mm
OPTICAL PARAMETERS	Illuminance at 200mm Working Distance	≥35,000 LX
COLOR TEMPERATURE	5000K	5000K
BRIGHTNESS ADJUSTMENT	Continuous Dimming	Continuous Dimming
ILLUMINATOR	Adjustable Angle	±45° in Vertical Plane
WEIGHT (±3G)	27g	12g
WORKING TIME	>6 hours	>7 hours
LITHIUM BATTERY	Charging Time After Battery Depletion	3.5 hours
BATTERY QUANTITY	1	1
CAPACITY	2300mAH	2300mAH
CHARGER	Intelligent Battery Protection Function	Input Voltage 100-240VAC
ACCESSORIES	Yellow Filter	1 piece
SWITCH MODE	Button Switch	Button Switch



HL8200 Medical Headlight

HL8260 MEDICAL HEADLIGHTS

- Medical-grade LED light source with a color temperature of 5000K, CRI>90, with clear and smooth light spots.
- Ergonomic design for comfortable wear, lightweight and portable. The doctor's binocular vision and the lighting are almost coaxial, illuminating the exact area of vision, achieving unobstructed deep illumination along the visual axis.
- Powered by smart rechargeable lithium battery, Dual use (AC/DC), with built-in charging protection. Battery can withstand up to 500 times without noticeable energy degradation.
- Infrared touch switch, sterile control environment, comply with infection control standards.
- LED bulb with an ultra-long lifespan of 20,000 hours, far exceeding the lifespan of traditional medical halogen light sources and xenon light sources.
- Equipped with a yellow filter, effectively reducing blue light and delaying the curing time of resin materials.



CONFIGURATION	HL8260 PARAMETERS
LIGHT SOURCE BULB	Enhanced white LED, lifespan 20,000 hours
DIAMETER OF ILLUMINATION SPOT AT 420MM (±10%)	120mm
OPTICAL PARAMETERS	≥35,000 LX
COLOR TEMPERATURE	5000K
BRIGHTNESS ADJUSTMENT	Non-adjustable
ILLUMINATOR	±45° in Vertical Plane
WEIGHT (±3G)	(with battery) 31g
WORKING TIME	>3 hours
LITHIUM BATTERY	3.5 hours
BATTERY QUANTITY	2
CAPACITY	500mAH
CHARGER	Input Voltage 100-240VAC
ACCESSORIES	1 piece
SWITCH MODE	Infrared Touch



COMBINATION OF HL SERIES HEADLIGHTS AND SL SERIES SURGICAL LOUPES



HL8200 Medical Headlight
and DFK Binocular Loupe



HL8260 Medical Headlight
and DFK Binocular Loupe



HL8200 Medical Headlight
and SLT TTL Binocular Loupe



HL8200 Medical Headlight
and SLT TTL Binocular Loupe



HL8200 Medical Headlight
and SLT TTL Binocular Loupe



HL8260 Medical Headlight
and SLT TTL Binocular Loupe



HL8200 Medical Headlight
and SLH Binocular Loupe



HL8200 Medical Headlight
and SLH Binocular Loupe



HL8200 Medical Headlight
and SLK Binocular Loupe