



# DL1000

Surgical head-light  
Technology that's clear to see



The **DARAY** DL1000 head-light is designed for examination use and all types of surgical operations including microsurgery.

The DL1000 head-light supplies bright, white, shadow-free light allowing the user to see tissue characteristics without distortion.

- Variable intensity LED light
- No heat in the light's beam
- 6,000K colour temperature
- Intense, shadow-free light
- Tissue colour tone undistorted
- High-grade glass
- 3W LED
- Rechargeable Li-ion battery pack
- Battery charger included
- Robust flight case
- Adjustable eyepieces and headband
- Optional loupes available

**DARAY**<sup>®</sup>  
HEALTHCARE PRODUCTS

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# DL1000

## Minimal colour distortion

With a colour temperature of 6,000K, The DL1000 head-light supplies bright, white, shadow-free light allowing the user to see tissue characteristics without distortion.

## Flight-case

The DL1000 comes in a smart, tough, lockable aluminium flight-case that holds the head-light, and all its accessories.

## Lightweight portability

With its rechargeable lithium battery, you can comfortably use the DL1000 head-light freely with no trailing cables for up to 2.5 hours between charges. It is also possible to use the head-light whilst it is being recharged. A low-battery indicator lets you know when it's time to recharge.

## Adjustable light-patch

Once on the head, the size of the light patch, or illuminated field of view, can be adjusted using the slider control located on the front.

## Minimal heat

Because the DL1000 uses LED technology you can be sure that the user and the patient don't suffer with the heat normally associated with traditional halogen lamps.



## Product specification

Fluctuation distance	12.5mm
Angle range	Vertical $\pm 25^\circ$
Weight	69g (excluding headband)
Illumination source	3W LED life approx. 20,000 hours
Battery	7.2V lithium
Battery life	Not less than 2.5 hours continuous use (fully charged)
Charger supply rating	90-240V AC, 50Hz-60Hz
Maximum input power	15W
Power adapter output	DC 10V $\pm 0.5V$ , 1.5A
Electrical safety standard	GB9706.1, class II type BF equipment

## Optical specification

Light-patch at 420mm	$\varnothing 20-80\text{mm}$
Illumination at 250mm working distance	$\geq 25,000$ lux
Colour temperature	6,000 K

## Optional loupes with frames

Part no.	Magnification	Focal length (mm)	Field of view (mm)
DLL250/340	2.5x	340	80
DLL250/420	2.5x	420	100
DLL250/460	2.5x	460	110
DLL250/500	2.5x	500	120
DLL300/340	3x	340	70
DLL300/420	3x	420	84
DLL300/460	3x	460	92
DLL300/500	3x	500	100
DLL350/340	3.5x	340	60
DLL350/420	3.5x	420	72
DLL350/460	3.5x	460	78
DLL350/500	3.5x	500	84

## Operating environment

Normal use	Temperature	+10°C to +40°C
	Relative humidity	30% to 75%
	Atmospheric pressure	700hPa to 1060hPa

## ABOUT DARAY

DARAY have been established in the medical, dental and veterinary markets since 1968 building exceptional and durable products.

We shall continue to innovate; aiming to excel in our endeavours to deliver reliable solutions.



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