

I See
Éclairage intégral



I See 3 integrates in the same device:

- the operating lamp with 4300K neutral white LEDs
- the general lighting in Northern light
- the travelling function

**Colour of Light differentiated: LED 4300K
& Northern light 6500K**

**Specifically designed to ensure the necessary
asepsis for dental care and surgery**

Travelling for maximum ergonomics



degréK
www.degrek.com

The quality of lighting

Color of light differentiated

For the "reconstruction/aesthetic" phase:

The double ceiling light emits a Northern light with 6500K tubes of IRC>98. Its maximum illumination allows work without operating lamp.

For the "diagnosis and care" phase : Specially designed with safety being a priority, LEDs emit a neutral-white 4300K light

- it is free from the dangerous blue peak so that the dentist eyes are protected from the blue light toxicity
- LEDs have no 470 nm wavelength: the pre-polymerisation effects of composites are eliminated. The practitioner doesn't have to push aside or switch off his scalytic lamp during polymerisations
- Contrary to the cold (blue) white of other LEDs, which gives a blue or purple appearance to gingivitis, the neutral white enables an excellent identification of the red tones (soft tissue ulcerations) and yellow tones (decayed dentine, enamel fractures and tartar).

Powerful illumination to provide lighting conforming with the standards

In the 3 areas of the treatment room (EN 12464-1): 1500 lux on the patient's face, 1000 lux in the working area, 500 lux in the movement area.

Of the operating area (standard ISO 9680):

- The operating spotlight covers the entire mouth. Your view of the operating field is therefore clearly better and operating lamp adjustments are unnecessary as you act. The central spotlight area – 52 mm high x 55 mm wide – attaining 40 000 lux is very uniformly illuminated. The great depth of field enables powerfully illuminating the entire depth of the mouth. .
- Almost no shadows (data divided by 5 with respect to the maximum authorised by the standard. It corresponds to surgical standards).
- The criss-crossing of 4 light beams provides an exceptional 75mm depth of field. It guarantees maximum lighting at the back of the mouth and facilitates using instruments without light, such as the surgical knife or the syndesmotome

Northern light mainly indirect lighting,

for the right distribution of luminances, a minimum dazzling effect and a reduction of conveyed shadows, particularly with 4 hands. The care taken in the design and distribution of the brightness gives an incomparable UGR (measure of the total operator glare) conforming with the most stringent standards for the most delicate work. This remarkably low glare offers much more comfortable light which helps to calm and relax patients while they are being treated and enables the dentist to make the choice of shades in unsurpassed conditions. I See has a double ceiling light, twice as wide and twice as powerful as a lighting of General Dentistry.

Sources latest generation

The tubes are controlled by electronic ballasts: instantaneous turn-on, elimination of flicker phenomena and stroboscopic effect, extension of the life of the tubes, optimisation of energy consumption and elimination of the undesirable ambient temperature rise.

The LEDs are 4300K neutral white light types: optimum conditions for detecting red and yellow variations on tissues. Thanks to their service life, no light bulb will have to be changed throughout the device's life.

Almost no composite pre-curing effects

The absence of the 470 nm wavelength in the LEDs removes virtually all the composite pre-curing effects. The dentist does not have to move or to add a filter to the operating lamp during preparations.

Specifically designed for dental care and surgery

Asepsis

IP 50 Degree of protection: Dust-proof, splash-proof and ambient spray-proof. I See 3 is completely sealed and therefore does not let dirt or spray penetrate and make it dirty. I See has disinfectable surfaces like all operating room devices, by simply wiping with a moist cloth or by spraying with a surface disinfection product

No Touch control

Protected from the field of operator head movements. Starting, stopping and adjusting are done by placing a hand above the lighting head without touching it for hygiene reasons. A series of 5 green LEDs on the front panel allow the operator to check what lighting power they are working with (8000 to more than 40 000 lux).

Handle is dismountable and sterilisable : easy to remove for each new patient.

Everyday comfort

Travelling for maximum ergonomics

The positioning of the operating lighting is optimised: it follows your working position, not the other way round; its head is 3-axis orientable.

The travelling function reduces the force exerted for the translation movement of the operating lamp by more than 50%: its movements are fluid and comfortable, particularly when welcoming and releasing the patient. Shoulder pain and tension disappear.

LED dental lamp

No spurious noise or heat emission.

The very low electrical consumption of the LEDs (<4 watts at 40 000 lux) significantly limits the perceptible temperature rise of the appliance. There is no need for a fan, as with halogen lamps.

Hot air movements are eliminated; there is no dust in the lamp, spurious noise or unpleasant heating. User comfort and health are preserved, stress and fatigue are reduced.

Sensor system

Automatic regulation of the light intensity according to variations in the natural light.

The light intensity in the room remains stable throughout the day. This automatic adjustment rests the eyes and provides great additional comfort. It also helps to relax the patients. The luminous flux adapts automatically to the size of the room: an I See can be installed in a room of either 9m² or 21m².

LUX+ function

for a significant intensification of the illumination

Luminotherapy application

Exposure to bright daylight reduces the secretion of melatonin, the "sleep" hormone produced by the epiphysis. Luminotherapy therefore helps to regulate the internal body clock. Biorhythms are reset to their optimum levels. This generates a feeling of well-being, an increase in the level of physical activity and improved body tone.

Surgery/implanto/endo application

Working area at 2300 lux (instead of 1500), with the dual advantage of intensifying by 800 lux over the whole operating field without subjecting the practitioner's eye to intense accommodation when the surgical operating light is increased to 50,000 lux. The brightness and the UGR remain very low, and the level of comfort is kept at its best.

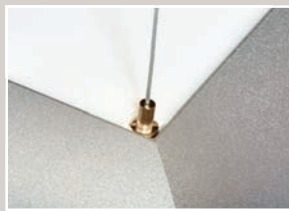
Surrounding area at 1000 lux as recommended in standard EN 12464-1 for surgical operating rooms.

Modern slim design

Compact and lightweight, it will contribute to the look of your office, and adapts to all dental care, prophylactics, orthopaedics and surgical rooms.

Made in aluminium for elegance, appearance and aesthetic feel.

Lighting head with balance weight arm



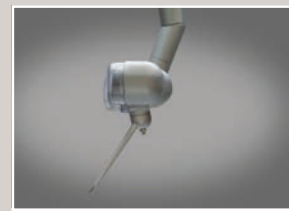
Completely sealed / disinfectable surfaces.



Handle is dismantable and sterilisable



No Touch control.



Association of a ceiling Northern light and an operating lamp with LED in 4300K

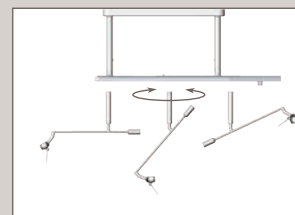
Eco-friendly

The miniaturisation of the lightings resulted from extensive research aimed at excellence in illumination, whilst preserving the planet by saving raw materials, electronic components, energy consumption. Thoughtful and responsible recycling; at the product's end of life.

Technical characteristics

	I See 3
ceiling height	240cm to 355cm
treatment room surface	from 9 to 21 m ²
height under lighting	210cm to 225cm (fixed)
Degree of protection (IP)	IP50
Total power consumption	< 500 W
colour rendering IRC	> 98
weight	50 à 60 kg according to the references
function lux+ / sensor	yes
versions/references	ISEE_240-255 - for ceiling 240-255 ISEE_256-271 - for ceiling 256-271 ISEE_272-287 - for ceiling 272-287 ISEE_288-303 - for ceiling 288-303 ISEE_304-315 - for ceiling 304-315 ISEE_316-355 - for ceiling 316-355 (made on measure)

	operating light	traveling	Ceiling light Albédo M/S
sources	4 LED 1W	-	8 tubes T5 54 W teinte 965
colour temperature	4300 K	-	6500 K
dimensions (mm)	291 x 91 x 70	1710 x 120	2x (1260 x 410 x 75)
illuminance max	-	-	6000 cd/m ²
illumination (lux)	40000 max	-	3650 max
flux lumineux max	-	-	30 400 lumens
luminous flux max	-	--	13
finishing	Aluminium gray Monopol Ceiling light Diffusers : white-low luminance		



Made in France & Swissmade
EN ISO 9001/2008 EN13485:2003 + AC:200
| ISO9680 | CE Médical 93/42/CEE class
1-B DM | EN60601-1-2 (2007) - EN60601-1
(2006) | IP50 | Light head to be positioned
70cm from surgical field | read the instructions
on the package leaflet.

