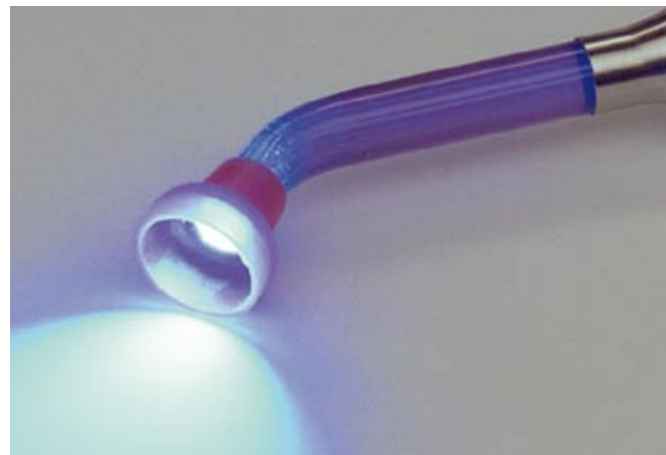


Celalux 2

EFFECTIVE AND SAFE

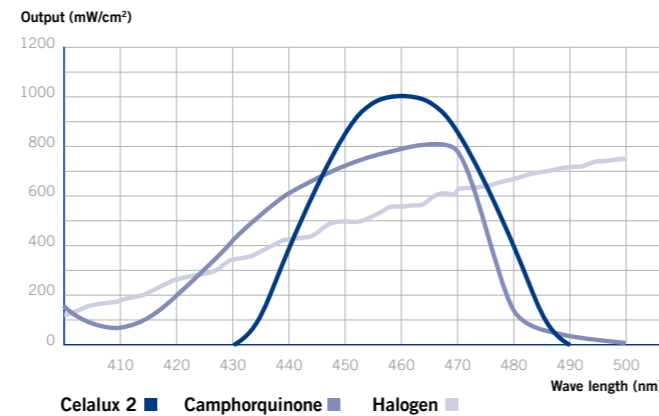
The Celalux 2 is a state-of-the-art high-performance light-curing device. Thanks to the latest light-emitting diode technology (LED), the new Celalux 2 has a classic and compact design, combined with a high blue light intensity.



With an average light output of 1,000 mW/cm², the new Celalux 2 is ideal for use in restorations with all composite materials, bonding materials, light-curing cements etc.

Highly efficient LED's (wave length from 430 to 490 nm) are used as a light source in the Celalux 2. These LED's have a considerably narrower emission spectrum than conventional halogen lamps. Therefore the Celalux 2 is perfectly matched to the absorption spectrum of the photoinitiator camphorquinone, contained in light-curing restorative and luting agents. The use of an amber-coloured light guide prevents scattered light and also prevents the attending dentist and his staff from being dazzled. In addition, an optimum ratio of light and heat emission has been achieved by limiting light output to 1,000 mW/cm². Since the light emitted by the Celalux 2 is almost completely utilised in activating the camphorquinone photoinitiator, excellent curing results can be achieved with significantly reduced heat emission.

Emission spectrum of the Celalux 2



Rapid and complete polymerisation does not just depend on the light output of an LED lamp; it also depends on the degree of intersection of the absorption curve of the photoinitiator with the emission spectrum of the LED lamp. As shown above, the Celalux 2 covers almost the entire effective range of the absorption spectrum of the photoinitiator camphorquinone. Its performance is in marked contrast with halogen lamps, where radiation over 480 nm is only 20% efficient with a heat loss of over 80%.

All areas requiring restoration can be easily accessed thanks to the Celalux 2's rotating light guide. The 7.5 mm diameter of the light guide enables even extensive cavities to be illuminated fully, thereby dispensing with the need for costly multi-exposures.



Celalux 2

DESIGN AND FUNCTIONALITY

The design of the Celalux 2 is a perfect combination of design and functionality. Almost all the surfaces on the anodised aluminium handpiece are rounded, enabling the handpiece to fit comfortably into your hand. This, together with its extremely low weight of only 160 g, makes the device very easy to handle.



The absence of openings and recesses makes it significantly more difficult for microorganisms to adhere to the handpiece and to multiply. This design feature, combined with the speed and ease with which the Celalux 2 can be disinfected, gives dental staff and patients an extremely high level of protection against contamination.

The battery charger has been designed in such a way that the handpiece can be inserted without having to be aligned in a particular direction. This facilitates quicker charging times for the powerful lithium-ion battery (without memory effect). In addition, the battery charger of the Celalux 2 contains a wattmeter, enabling the light intensity of the Celalux 2 to be checked at any time.

The Celalux 2 boasts the following performance features:

- Amber-coloured light guide: high light intensity of 1,000 mW/cm² with extremely low heat development
- White light guide available as optional extra with an output of about 1,500 mW/cm²
- Ergonomic shape with handpiece weighing only 160 g
- High battery performance: at least 300 polymerisations every 20 s
- Batteries are easy to change

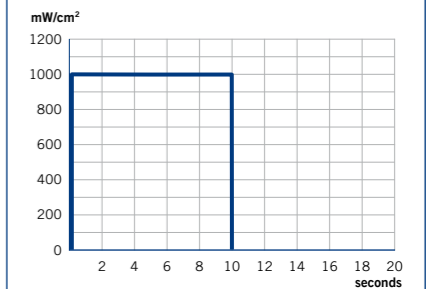
Curing modes

The Celalux 2 has three different curing modes, depending on the application required:



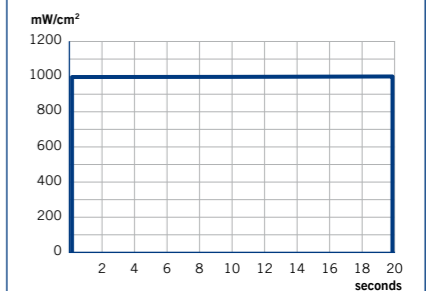
Mode 1: Standard – 10 s

The maximum light output is activated for a period of 10 s.



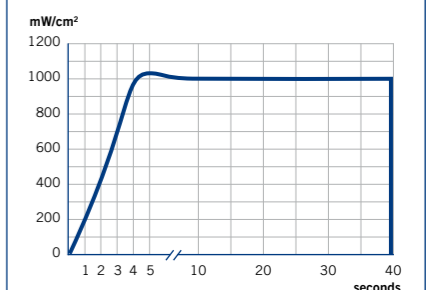
Mode 2: Standard – 20 s

The maximum light output is activated for a period of 20 s. The device emits an acoustic signal every 10 s.



Mode 3: Soft start

Progressive increase in light output over 5 s, followed by maximum light output for 35 s. The device emits an acoustic signal every 10 s.



Celalux 2

TECHNICAL DATA



Optical properties	
Wavelength range	430 – 490 nm
Light intensity, amber-coloured light guide	1,000 mW/cm ² (+/-10%)
Light intensity, white light guide	1,500 mW/cm ² (+/-10%)
Technical properties	
Operating times	
Operating time with battery on full power	300 cycles of 20 s (corr. to approx. 100 min)
Device base (accumulator)	Lithium-ion accumulator without memory effect, 2,000 mAh
Charging time	2.5 hours
Device/Handpiece	
Dimensions	Ø 23 x 200 mm
Weight	160 g
Diameter of the light guide	7.5 mm
Device/battery charger	
Power supply	12 V DC
Mains voltage	110 – 240 V AC, 50 – 60 Hz
Classification	Type B
Protection against penetration of humidity	Handpiece and battery charger IPXO (IEC 60529)
Electrical insulation	Class II (EN 60601)

Equipment

Basic device

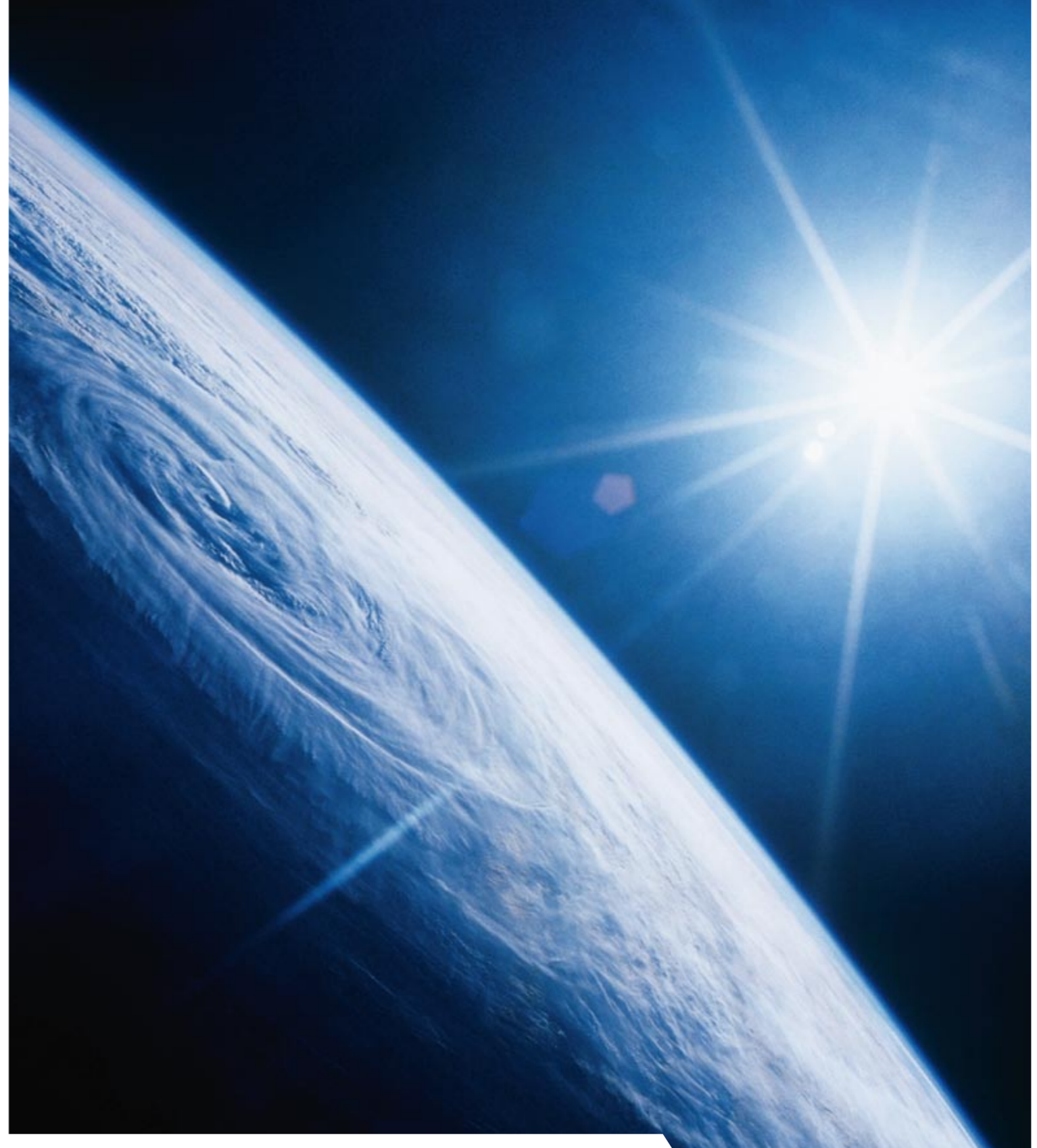
REF 9080 Celalux 2
(Handpiece with protective cap and LED, battery charger with integrated wattmeter, mains adapter, lithium-ion accumulator, amber-coloured light guide, dia. 7.5 mm, 45° angled, 2 x antiglare device, user manual)

Accessories

- REF 9081 Curved light guide, 45° angled, dia. 7.5 mm, amber-coloured, sterilizable
- REF 9082 Device base incl. lithium-ion accumulator, capacity: 2,000 mAh
- REF 9083 Antiglare device for light guide dia. 7.5 mm, 5 units
- REF 9084 Curved light guide, 45° angled, dia. 7.5 mm, white, sterilizable

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