Celalux® 3

HIGH-PERFORMANCE LED LIGHT-CURING DEVICE

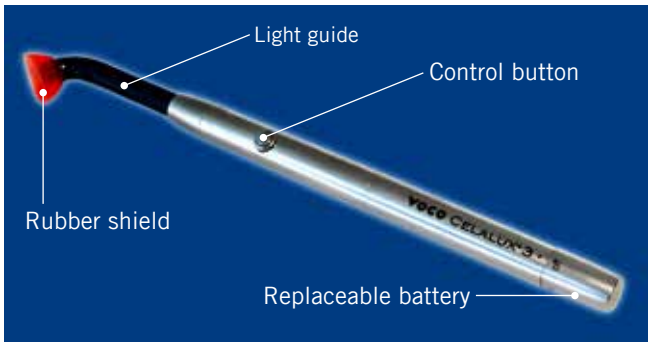
VOCO
THE DENTALISTS

Celalux® 3

EFFECTIVE, SAFE AND HANDY

The Celalux 3 from VOCO is the new cordless high-performance LED light-curing device with a light output of 1,300 mW / cm^2. Thanks to its light weight and slim form, it resembles a dental instrument. The Celalux 3 is therefore extremely handy and is the first light-curing device to fit in the hand just as comfortably as a filling instrument, for example.

The Celalux 3 is very easy and straightforward to use as it is operated by only one control button: a single press of this control button activates the light for 20 seconds and then switches it off automatically. If polymerisation can be completed in less than 20 seconds, you can switch off the light at any time by pressing the control button again. The Celalux 3 temporally regulates the polymerisation cycle, not by emitting the usual high-frequency, unpleasant acoustic signal, but by vibrating at the start, and again after 10 seconds and 20 seconds.



With a fully charged battery, you can easily carry out 45 polymerisation cycles, each of 20 seconds duration. A discharged battery can be recharged simply by removing the battery from the handpiece and inserting it in the battery charger. In the meantime, you can continue to work using the second battery supplied.

In addition to the two charging devices for the two batteries supplied, the battery charger also features a storage compartment where the handpiece can be placed with or without a battery. Outside operating hours, both batteries can remain connected to the battery charger thanks to its integrated overcharge protection, which means that the Celalux 3 is always ready for use.

As contamination or damage to the light guide can lead to reduced functionality, it is generally recommended to check the performance of all light-curing devices regularly.[1] The radiometer built into the battery charger provides you with information on the current light output. If this is sufficient for polymerisation, a green light is displayed. A red light, however, indicates that optimum polymerisation is no longer guaranteed due to a reduced light output. In this case, it is recommended to replace the battery, clean the light guide and re-test the device before using it on a patient.

LEDs with a wave length of 450 - 480 nm are used as a light source, making the Celalux 3 ideal for curing light-curing dental materials whose photoinitiator, camphorquinone, is activated in this wavelength range.

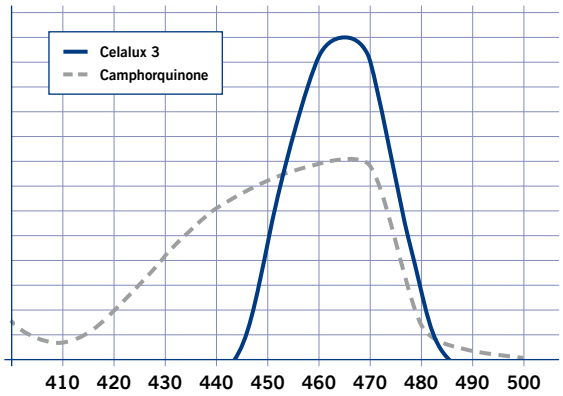
The Celalux 3 features a light guide with a practical 8 mm diameter, enabling the device to be used with maximum effectiveness, even where there is a limited degree of jaw opening.[1]

Celalux® 3

TECHNICAL DATA

The Celalux 3 in original size

Rel. intensity **Emission spectrum of the Celalux® 3**



The emission spectrum of the Celalux 3 depicted in the above figure illustrates how perfectly the device is matched to the absorption spectrum of the photoinitiator, camphorquinone, which initiates light curing in most standard dental materials.

An LED light-curing device must meet high standards, not just in terms of functionality, but aspects of hygiene are important as well. The Celalux 3 is made of high-quality stainless steel with a matte finish. The streamlined design of the housing inhibits the adhesion of deposits, making it easier to clean the device. The microbial load on the handpiece, the batteries and the battery charger can therefore be reduced by wipe-down disinfection. The light guide and antiglare device are autoclavable.

[1] Source: www.zmk-aktuell.de: Der effiziente Einsatz von Lichtpolymerisationsgeräten – ein Leitfaden für Zahnärzte
Prof. Dr. Jack L. Ferracane, Prof. Dr. David C. Watts, Prof. Dr. Nasser Barghi, Prof. Dr. Claus-Peter Ernst, Prof. Dr. Frederick A. Rueggeberg, Adrian Shortall, Prof. Dr. Richard Price, Prof. Dr. Howard Strassler

Technical data

Wave length range	450 - 480 nm
Output	1,300 mW / cm²
Handling	Intermittent use, 10 cycles, each of 20 s duration / 3 min. break
Operating time with fully charged battery	> 45 cycles, each of 20 s duration
Light guide	ø 8 mm
Device Base	Lithium polymer, 270 mAh
Handpiece	
Dimensions	ø 12.6 mm, L 210 mm
Weight	70 g (incl. device base and light guide)
Battery charger	
Dimensions	L 160 mm × B 90 mm × H 35 mm
Weight	170 g
Radiometer	built-in, Green light: sufficient light output Red light: insufficient light output
Mains voltage	100 - 240 V AC, 50 / 60 Hz
Power supply	6 V DC / 1 A
Classification	Type BF
Electrical insulation	Class II
Connector	interchangeable adapter for DE, UK, USA (supplied)

Celalux® 3

HIGH-PERFORMANCE LED LIGHT-CURING DEVICE

Indications

Polymerisation of light-curing dental materials which cure with blue light in a wave length range of 450 nm to 480 nm (absorption range of camphorquinone)

Advantages

- State-of-the-art LED technology with high light intensity (approx. 1,300 mW / cm^2)
- Wavelength range 450 - 480 nm
- Slim and ergonomic design (pen-shaped); weight of the handpiece, including device base and light guide, weighs only 70 g
- Indicates how much time has elapsed by vibrating at the start, and again after 10 s and 20 s, instead of the acoustic signals previously used
- Easy to handle, cordless
- Autoclavable 8 mm light guide
- The spare device base supplied ensures the device is always ready for use
- Battery is very easy to change

Presentation

REF 9090	Celalux 3 (handpiece, battery charger, power cord with interchangeable mains adapters, 2 lithium polymer batteries, 8 mm light guide, rubber shield, operating instructions)

Accessories

REF 9091	Light guide 8 mm, autoclavable
REF 9092	Battery
REF 9093	Rubber shield, 5 pcs.

VOCO GmbH
Anton-Flettner-Straße 1-3
27472 Cuxhaven
Germany

Tel.: +49 (0) 4721-719-0
Fax: +49 (0) 4721-719-140

info@voco.com
www.voco.com

Available from:

VOCO THE DENTALISTS