

Demi™ Ultra

LED Ultracapacitor Curing Light System

Kerr™

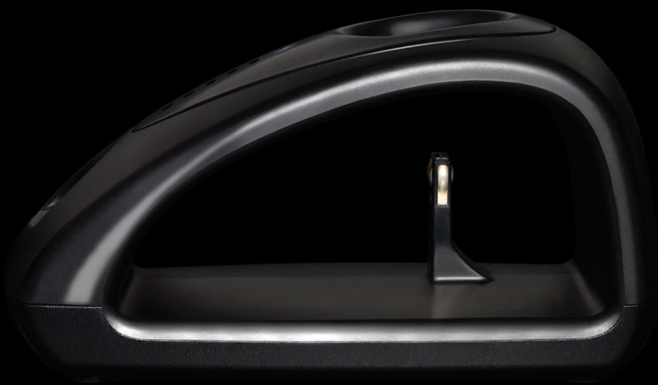


N O B A T T E R Y

N O C O R D

N O E Q U A L

A quantum leap in  
curing light technology.



### Revolutionary U-40™ Ultracapacitor technology re-energizes to full power in under 40 seconds

Kerr Demi™ Ultra is the first and only curing light powered by state-of-the-art ultracapacitor technology. Although ultracapacitors are similar in size and shape to batteries, they work much differently—re-energizing in a matter of seconds, and maintaining their energy capacity year after year.

In practical terms, the U-40 Ultracapacitor-powered Demi Ultra is just 40 seconds away from being able to deliver 25 ten-second cures. In your practice, the Demi Ultra delivers convenience, efficiency, and reliability—like nothing you've experienced before.

#### U-40 Ultracapacitor advantages

##### Ultra-fast re-energizing



##### Re-energizes in under 40 seconds

Compared with 1.5–3.0 hours for lithium-based batteries

##### Reliable performance



##### Retains energy capacity over time

Batteries can decline by 30% or more after just 12 months

##### Improved longevity



##### 8x longer life expectancy\*

Compared with lithium-based batteries

##### Lower operating costs



##### Ultracapacitors do not require replacement

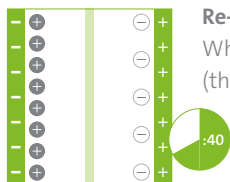
Replacement batteries can cost 800€ over the life of the light†

#### 40-second re-energizing with the U-40 Ultracapacitor



##### Low energy

Inside the U-40 Ultracapacitor, ions float between two carbon-coated electrodes.



##### Re-energized

When an electrical current is applied to the plates (this occurs when the handpiece is in the dock), the ions accumulate on each plate, creating an electric field to power the curing light.

To learn more about the advanced technology of the U-40 Ultracapacitor, view [demiultra.eu](http://demiultra.eu) or [kerrdental.eu](http://kerrdental.eu)

\*Based on estimated time to reach 30% capacitance loss vs lithium-based battery.

†Based on 6-year product life and battery replacement every 18 months at 200€ each.





Proprietary **C.U.R.E.™ Technology** (Curing Uniformity and Reduced Energy) provides uniform depth of cure with industry-leading low temperatures.

**Curing uniformity**

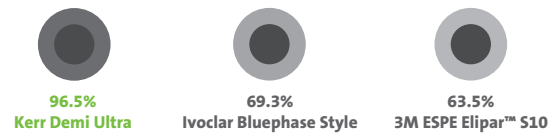
The Kerr Demi Ultra delivers a more uniform and concentrated beam compared to other curing lights. This directs more energy to the restoration for an efficient, uniform depth of cure.

**Collimation Comparison<sup>1</sup>**



Collimation as measured by the angle of beam divergence.

**Beam Uniformity Comparison<sup>2</sup>**

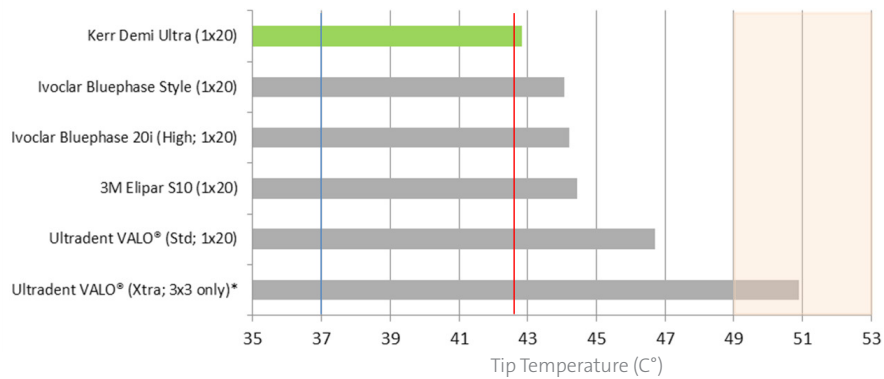


Uniformity as measured by the average perimeter irradiance as a percentage of the 4mm diameter core average irradiance. Beams not to scale.

**Reduced energy**

The risk of thermal injury is reduced by the low tip temperature. By locating high-efficiency LEDs at the tip and incorporating an extra-large heat sink, the tip temperature is kept low compared to other LED curing lights on the market.

**Curing Light Tip Temperature after 20-Second Exposure<sup>2</sup>**



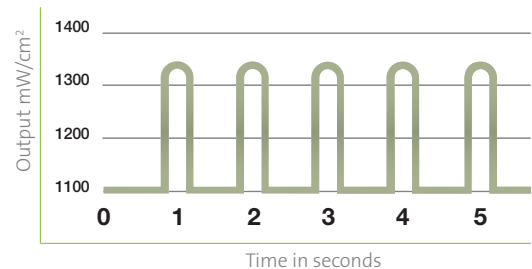
\*Three-second safety delay between multiple cures

**Periodic Level Shifting (PLS)**

The Demi Ultra incorporates the Periodic Level Shifting (PLS) technology. During each second of a curing cycle, Periodic Level Shifting, or PLS, shifts the energy output of the LEDs from a base value of 1,100 mW/cm<sup>2</sup> to a peak value of 1,330 mW/cm<sup>2</sup> for one quarter of a second. The modulated energy delivered by PLS provides rapid curing reducing heat.

**Faster Cures Without Excess Heat**

**Pulsing Power of PLS**



## MEETING YOUR EVERY NEED

The *Easy Suite* feature set provides simple and intuitive operation and maintenance for seamless integration into your practice

### Durable, lightweight construction

Demi Ultra's hybrid construction unites Teflon-coated aluminum and molded Valox plastic in an ultra-light, durable design

### Comfortable ergonomic design

The handpiece's lightweight, ergonomic design and 360° rotating tip invite a wide range of comfortable hand positions to help minimize hand and arm fatigue

### Easy to clean and keep clean

The sealed, ventless handpiece and docking station are engineered to simplify cleaning and to help extend service life



### Two-button single-mode operation

Provides easy access to all system functions, including new silent setting. Equally convenient, the single mode eliminates the need to toggle between settings for optimal performance

### Fully integrated radiometer

The charging dock features a built-in, easy-to-use radiometer with LED indicators that instantly communicate the curing light system's power status



System specifications	Handpiece with LED light attachment	Charging dock
Size	27 x 3.3 cm	14.7 x 8.1 x 7.6 cm
Weight	184 g	456 g
Output	1'100 to 1'330 mW/cm <sup>2</sup>	
Wavelength	450–470 nm	
Curing modes	5, 10, and 20 seconds	
LED light attachment	8mm with 60° angle, non-autoclavable	
Warranty	3 years + 2 years extended warranty and accidental damage coverage optionals	

### Ordering Information

Kerr Demi Ultra LED curing light is powered by the revolutionary U-40 Ultracapacitor—exclusive technology that re-energizes to full power in under 40 seconds, for incomparable convenience. Proprietary C.U.R.E. Technology rapidly delivers uniform depth of cure with industry-leading low temperatures, and the *Easy Suite* feature set combines simple and intuitive operation with worry-free cleaning.

#### 35664 Demi Ultra LED Ultracapacitor Curing Light System

Contains: 1 handpiece, 1 8mm LED light attachment, 1 charging dock with radiometer, 1 power supply, 1 protective light shield, 1 hardness disk kit, 1 5-pack disposable barrier bags, 1 IFU

#### Accessories

**35665** Demi Ultra LED Light Attachment 8mm

**35666** Demi Ultra Charging Dock

**35667** Demi Ultra Handpiece

**35668** Demi Ultra Light Shield

**35815** Demi Ultra Power Supply

**21042** Optics Maintenance Kit

**35837** Disposable Hardness Disk Kit (1 pk)

**PEDEMIULTRA-100** Demi Ultra Barrier Bag (100 ct)

## DON'T CHANGE BATTERIES — CHANGE CURING LIGHTS

[www.demiultra.eu](http://www.demiultra.eu) [www.kerrdental.eu](http://www.kerrdental.eu)

#### REFERENCE

1. R Yapp, JM Powers. Comparative curing and thermal properties of a new led curing light. *The Dental Advisor*. June 2013, in press.
2. Data on file. Kerr Corporation.

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