A quantum leap in curing light technology.
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 or kerrdental.eu

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†

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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 or kerrdental.eu

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* 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

<table>
<thead>
<tr>
<th>Device</th>
<th>Collimation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerr Demi Ultra</td>
<td>18°</td>
</tr>
<tr>
<td>Ivoclar Bluephase Style</td>
<td>31°</td>
</tr>
<tr>
<td>3M ESPE Elipar™ S10</td>
<td>36°</td>
</tr>
</tbody>
</table>

Collimation as measured by the angle of beam divergence.

#### Beam Uniformity Comparison

<table>
<thead>
<tr>
<th>Device</th>
<th>Uniformity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerr Demi Ultra</td>
<td>96.5%</td>
</tr>
<tr>
<td>Ivoclar Bluephase Style</td>
<td>69.3%</td>
</tr>
<tr>
<td>3M ESPE Elipar™ S10</td>
<td>63.5%</td>
</tr>
</tbody>
</table>

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

*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/cm² to a peak value of 1,330 mW/cm² 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**

- Output mW/cm²
  - 1100
  - 1200
  - 1300
  - 1400

**Time in seconds**

- 0
- 1
- 2
- 3
- 4
- 5
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.

Handpiece with LED light attachment
- Size: 27 x 3.3 cm
- Weight: 184 g
- Output: 1,000 to 1,330 mW/cm²
- Wavelength: 450–470 nm
- Curing modes: 5, 10, and 20 seconds
- Warranty: 3 years + 2 years extended warranty and accidental damage coverage options

Charging dock
- Size: 14.7 x 8.1 x 7.6 cm
- Weight: 456 g

System specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Handpiece with LED light attachment</th>
<th>Charging dock</th>
</tr>
</thead>
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<tr>
<td>Curing modes</td>
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<td></td>
</tr>
<tr>
<td>LED light attachment</td>
<td>8mm with 60° angle, non-autoclavable</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>3 years + 2 years extended warranty</td>
<td></td>
</tr>
</tbody>
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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)

www.demiultra.eu    www.kerrdental.eu

REFERENCE

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