

mectron



medical technology



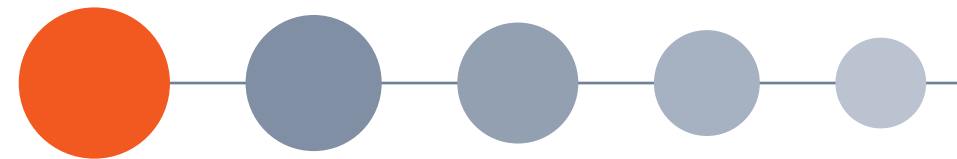
starlight sler®

LED curing lights

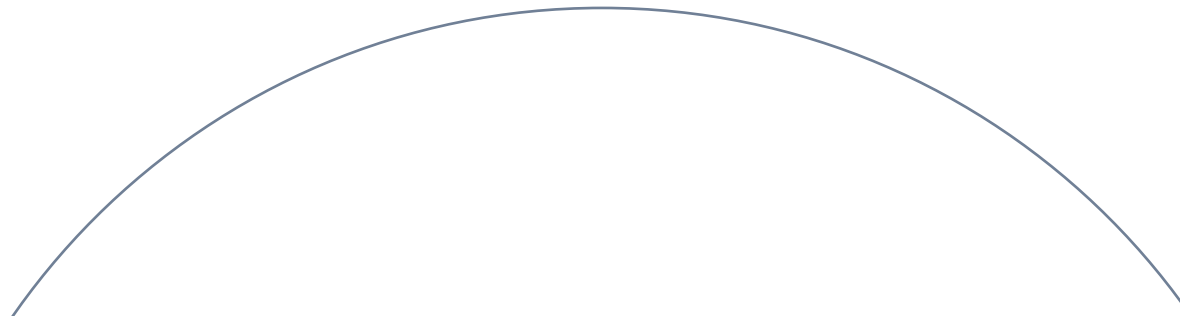
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sler® stands for „soft light energy release“, a slow decrease of light intensity at the end of the cycle. This patented mectron technology modulates and controls the temperature and shrinkage of the composite, improving its mechanical properties.

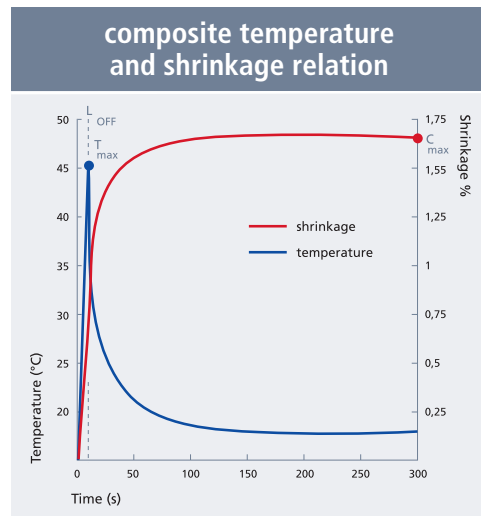
sler® technology



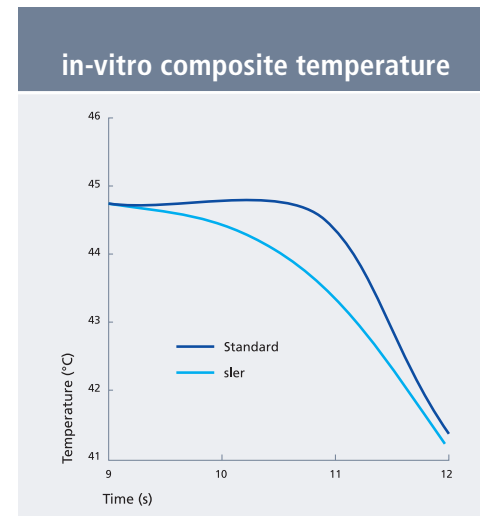
for a better curing result



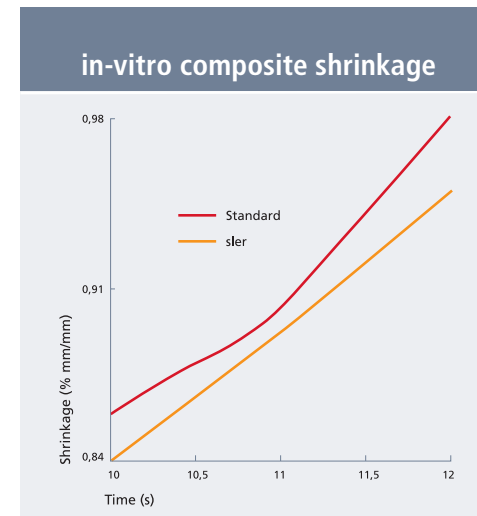
Standard program per 10 sec



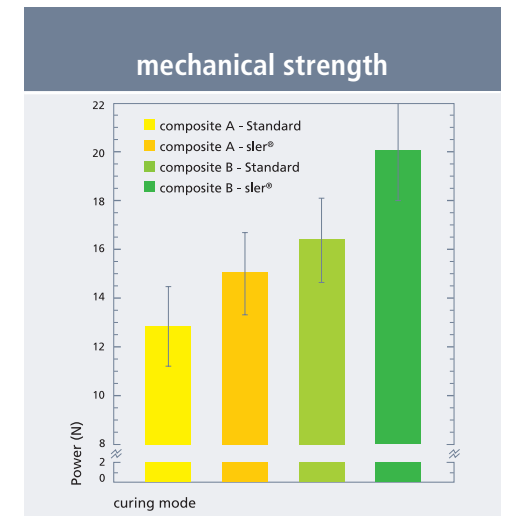
Comparison of Standard mode (10 sec) and sler mode (9 sec max power and 2 sec constant decrease)



Comparison of Standard mode (10 sec) and sler mode (9 sec max power and 2 sec constant decrease)



Comparison of different materials (color A2)



standard effects

Temperature and shrinkage exhibit an inverse relation. Interrupting light exposure stops the energy supply but the curing process is ongoing.

temperature control

Compared to a standard curing cycle, the sler® technology shows a better thermal control of the curing process. This protects against interface debonding, which may lead to marginal leakage.

shrinkage control

The sler® technology allows the dental material to relax its shrinkage stress at the end of the curing cycle. This decreases the possibility of micro-fractures both in the composite material and in the dentine substrate.

mechanical strength increase

Composite materials cured with sler® technology show improved mechanical strength, which contributes to better clinical performances.

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battery power

- lithium-ion battery with no memory effect, which can be easily disassembled even in the dental office
- charging time last only 90 minutes
- capacity sufficient for 320 10-second cycles
- processor controlled constant light power regardless of the charge level
- low battery warning

ergonomics

- only two control-buttons
- no fan - silent working
- black or transparent fiber optics available
- 360° rotatable fiber optics with metal connection
- well balanced, compact housing
- only 190 g weight
- control LEDs indicating the chosen mode
- sterilizable, easy to apply optical protection

curing power

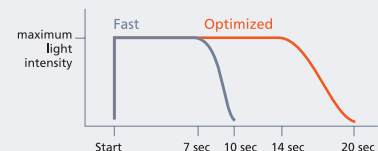
- more than 1.400 mW/cm²
- transparent fiber optics allow 12% more power than black fiber optics
- effective on camphoroquinone, used as photoinitiator in 98% of the materials on the market
- wavelength comprised between 440 nm and 480 nm with a peak at 460 nm
- hardens a 2 mm layer in 10 sec
- charging station with integrated radiometer

operating modes

The operating modes are selected by pressing the „mode“ button. Depending on how long the „start“ button will be pressed for, either the short or the long cycle starts. The chosen mode is indicated by LED.



sler mode



sler+ mode



soft mode



hygiene

- smooth, continuous and compact surface enables perfect disinfection
- sterilizable fiber optics

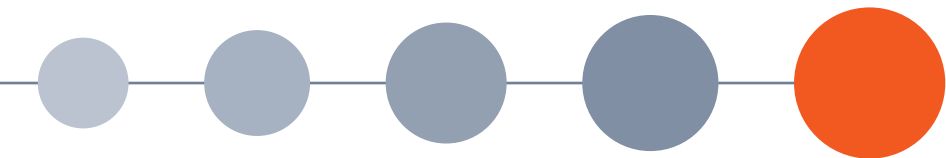
reliability

- 3 years warranty
- LED average working life of 2.5 million 10-second cycles

mectron invented and presented in 2001 the world first LED curing lights. Today mectron is one of the world largest manufacturers of LED curing lights. Thanks to our on-going research activity and the development of the **starlight sler®**, we now offer one of the most innovative and efficient devices available.



LED technique



value of experience

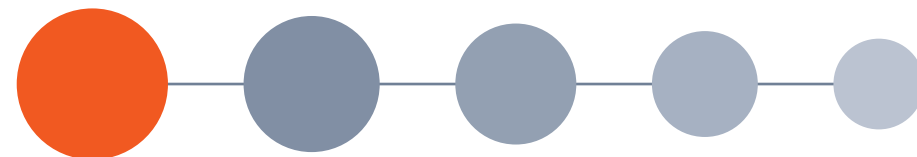
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Built-in version

The **starlight s sler**[®] can be easily built into a dental unit – the ergonomic hand-piece can be positioned simply in the quiver (its holder). The **starlight s sler**[®] offers the same 6 curing modes of the **starlight sler**[®].

starlight s sler[®]



LED curing integrated in the dental unit

technical specifications



starlight sler

starlight s sler

CE

Size (width x Ø)
Weight
Wavelength
Light intensity
– Ø 8 mm optical fiber
LED average working life
Battery charging time
Battery capacity
Warranty (excluding the optical fiber)

205 x 25 mm
190 g
440 – 480 nm

> 1400 mW/cm²
2.500.000 10-second cycles
90 minutes
320 10-second cycles
3 years
including the battery

141 x 25 mm
122 g
440 – 480 nm

> 1400 mW/cm²
2.500.000 10-second cycles

3 years

MECTRON STARLIGHT SLER® EVEN IN SLOWING DOWN WE ARE THE FASTEST – THE SLER® TECHNOLOGY BY MECTRON

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