

# SDI | RADII-CAL CX

COLLIMATED LED CURING LIGHT



COLLIMATED  
LIGHT



ERGONOMICALLY  
DESIGNED



SMART BATTERY  
TECHNOLOGY



COLLIMATED FOR  
A DEEPER, MORE  
RELIABLE CURE

# COLLIMATED FOR A DEEPER, MORE RELIABLE CURE

## COLLIMATED BEAM & UNIFORMITY

An uncollimated LED curing light delivers diminishing curing energy over the depth of a restoration. As shown in Fig 1, the uncollimated LED quickly fades, offering very little curing energy for deeper restorations.

The collimated beam of the Radii-Cal CX delivers curing uniformity across all curing depths. This ensures a fast and predictable cure for all restorations.

»» What you are looking for is an optimally collimated beam. Think about a lighthouse, and the light coming out of the lighthouse. That is what you are looking for. You are looking for light that has a good output over distance.»»

Dr Richard Price.

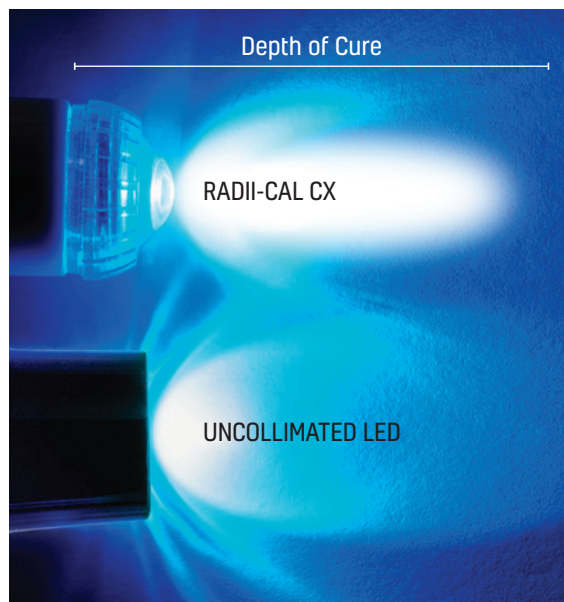
## ENHANCED HEAT MANAGEMENT

Heat dissipation is critical for all curing lights. Increases in heat will reduce clinical performance and will shorten the life of a curing light.\* The Radii-Cal CX includes heat sink dissipation technology. This technology protects the LED from damaging heat. By remaining cool, the Radii-Cal CX allows you ongoing consecutive cures without the need for a mandatory cool down. It also prolongs the life of the unit.

## LIGHTWEIGHT & ERGONOMIC

The ergonomic and lightweight design minimises fatigue and maximises comfort. The handpiece weighs just 144g / 5.1oz.

Suitable for handling in a pencil or pistol grip, the lightweight unit minimises hand and arm fatigue. The indentation for finger placement also provides ergonomic support when you are curing upper or lower quadrants.



[Fig 1]

## DURABLE LONG LIFE BATTERY

The Radii-Cal CX does not require frequent recharging between uses. When fully charged, the Radii-Cal CX provides 1,200 x 10 second cures.



## BUILT IN RADIOMETER

The Radii-Cal CX has a built in radiometer to confirm the energy output of the unit. This radiometer is calibrated to the Radii-Cal CX collimated lens.

# COLLIMATED LED CURING LIGHT

## SMART BATTERY

The Radii-Cal CX simply snaps into its docking station for easy ongoing charging. There is no need to unscrew or remove batteries for separate charging. The docking station will illuminate a green light to indicate a full charge.

## SENSITIVITY PROTECTION RAMP

During the first 5 seconds, the Radii-Cal CX light output energy will gradually increase. This 'soft-start' polymerization minimises stress at the restoration-enamel/dentine junction and reduces marginal gaps in the restoration.

^This safeguards the integrity of your restorations and decreases post-op sensitivity.

## EASY TO CLEAN

The smooth gloss finish ensures no bacteria can collect on the surface, making it fast and easy to clean. The perfectly fitted barrier sleeves provided, prevent cross-contamination.

## OPTIMAL WAVELENGTH SPECTRUM

The Radii-Cal CX LED targets the key 440-480nm wavelength, [Fig 2] which maximises the activation of camphorquinone monomers. This ensures efficient curing of light cured restoratives.

## 2 YEAR WARRANTY

The Radii-Cal CX's robust and reliable construction ensures your purchase is a long lasting investment.

## ADVANTAGES

Collimated uniform beam

Pulse technology = High intensity  
1200 mW/cm<sup>2</sup> plus low heat emission

Battery life = 1200 x 10 second cures

Advanced heat sink technology - no fan required

Built in ramp up mode

Built in radiometer indicator

Cordless, lightweight design - 5.1 oz/144 g

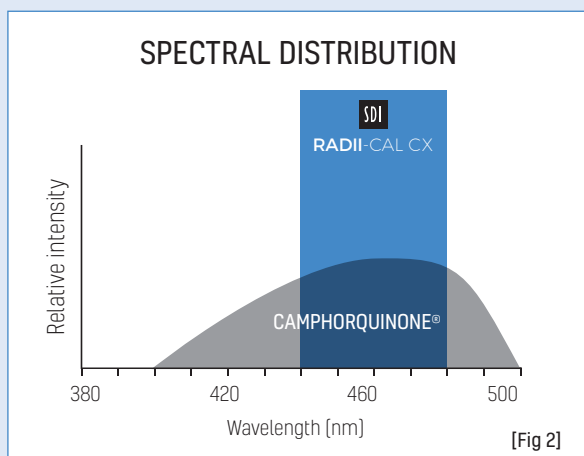
2 year limited warranty†

†2 year manufacturing warranty on parts and battery

## REPLACEMENT LENS CAPS

Lens caps can be easily unscrewed and replaced.

Other curing lights without replaceable caps require a total unit replacement.



†Price, Richard, Achieving the best results with curing lights, (dpr.pdf.ykdent.com.tw)

^Wahbi, Mohammed A et al. Characterization of heat emission of light-curing units. The Saudi dental journal vol. 24,2 [2012]: 91-8. doi:10.1016/j.sdentj.2012.01.003

^Heymann, H., Swift, E. J., Ritter, A. V., & Sturdevant, C. M. [2013] pg 180. Sturdevant's art and science of operative dentistry. St. Louis, Mo: Elsevier/Mosby

# ORDER DETAILS



## EQUIPMENT

### Radii-Cal CX LED Light

1 x Radii-Cal CX LED Curing Light  
1 x Recharger  
1 x Transformer  
3 x Replacement Lens Caps  
Accessories

5600110

## REPLACEMENT PARTS AND ACCESSORIES

Replacement parts and accessories which can be installed without special training or equipment, can also be obtained from your authorised SDI dealer.



Replacement Lens Caps (5 Pack)

5600310



Barrier Sleeves (1000 Pack)

5600005



Light Shield (5 Pack)

5600056



Radii-Cal CX Control Section

5600117



Radii-Cal CX Battery

5600062



Radii-Cal CX Charger (Includes Plug Pack)

5600118

## TECHNICAL DATA

### HANDPIECE (battery, control section and standard LED attachment)

Wavelength range:	440 nm - 480 nm
Peak wavelength range:	460 nm
RAMP to full intensity:	5 seconds
Light intensity:	1200 mW/cm <sup>2</sup> (peak)
Duration of continuous use	20 seconds
Total continuous run time with fully charged battery:	3 hours, 20 minutes
Dimensions:	22 mm diameter x 243 mm long
Weight:	144 g / 5.1 ounces
Battery:	Li-ion 7.4V/14 Wh

### PLUG PACK

AC input:	100-240V ~ 0.8A, 50/60 Hz
DC Output:	12V 1.66A, 20.0W MAX
Dimensions:	34 mm (W) x 41 mm (H) x 62.5 mm (L)
Weight:	104 g / 3.6 ounces

### CHARGER

Time to charge battery:	60 - 180 minutes
Operating temperature:	10°C - 40°C
Total height with handpiece inserted	255 mm
Dimensions:	70 mm (W) x 40 mm (H) x 130 mm (L)
Weight	84 g / 3 ounces

**CLINICAL TIP:** Radii-Cal CX can be used with Zipbond & Luna 2 [SDI Limited]. Zipbond is a single component fluoride-releasing universal adhesive, with excellent handling and desensitizing effect. Luna 2 is a universal nanohybrid composite with outstanding handling and shade matching. Both Zipbond and Luna 2 are BPA free and HEMA free, for long lasting restorations.

**SDI | ZIPBOND**  
UNIVERSAL ADHESIVE

**SDI | LUNA 2**  
UNIVERSAL COMPOSITE

**CLINICAL TIP:** Radii-Cal CX can be used with the award winning Riva LC/ Riva LC HV [SDI Limited] which is a light cured, resin-reinforced glass ionomer restorative with high fluoride release.

**SDI | RIVA LIGHT CURE**  
LIGHT CURED RESIN REINFORCED  
GLASS IONOMER RESTORATIVE MATERIAL



YOUR SMILE. OUR VISION.



MADE IN AUSTRALIA  
by SDI Limited  
Bayswater, Victoria 3153  
Australia  
[www.sdi.com.au](http://www.sdi.com.au)

**AUSTRALIA** 1800 337 003  
**AUSTRIA** 00800 0225 5734  
**BRAZIL** 0800 770 1735  
**FRANCE** 00800 0225 5734  
**GERMANY** 0800 100 5759

**ITALY** 00800 0225 5734  
**NEW ZEALAND** 0800 808 855  
**SPAIN** 00800 0225 5734  
**UNITED KINGDOM** 00800 0225 5734  
**USA & CANADA** 1 800 228 5166