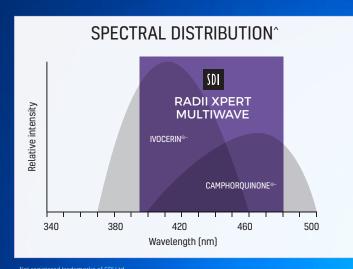


PROFESSIONAL LED CURING LIGHT

SMARTER DESIGN. OPTIMAL CURE EVERY TIME.

- Deep cure collimated LED
- · 360° rotating head
- Smart interface
- · Full power at low battery
- Easy recharge dock







Timothy S. Menees et al, (2015), 'Depth of cure of bulk fill composites with monowave and polywave curing lights', American Journal of Dentistry, 28(6): 357-361

SMARTER DESIGN. OPTIMAL CURE EVERY TIME.



BROAD SPECTRUM MULTIWAVE TIP

The Radii Xpert Multiwave LED attachment provides a wavelength range of 395 - 480 nm, making it suitable for polymerizing a variety of restorative materials. The wavelength range of the Multiwave LED attachment covers the absorbance spectrum of composites containing camphorquinone in combination with phenyl-propanedione (PPD), acyl phosphine oxide (e.g. Lucirin TPO®) or Ivocerin®



OPTIMALLY COLLIMATED BEAM

Radii Xpert is the ideal choice for restorations of all sizes, including bulk fill restorations that require a deep cure. The collimated beam ensures light intensity is maintained on the restoration being cured. Achieve a predictable cure, every time with Radii Xpert.



SMART TECHNOLOGY FOR EASE OF USE

Smart technology improves the efficiency of your dental appointment. An LCD display with countdown timer eliminates estimation and provides accuracy during a curing cycle. Radii Xpert gives you the ability to save your favourite setting and the multi-coloured status rings offer a visual representation when you need to charge or when curing is in progress.



ERGONOMICALLY WELL-BALANCED GRIP

Radii Xpert's ergonomic design allows you to comfortably access all restoration sites. The 360-degree rotatable head enables restorations in all quadrants to be accessed easily. Radii Xpert has a well-balanced slimline design and can be held in a pencil or pistol grip, minimising hand and arm fatigue.



PROFESSIONAL LED CURING LIGHT

CONSISTENT LIGHT INTENSITY

Radii Xpert performs better as light intensity remains consistent across clinically relevant distances. This consistent intensity allows light to penetrate the restorations underlying layer with a small decrease in intensity, ensuring complete photoactivation in all restoration.



LIGHT COMPARISON Intensity % over distance 100% 50% 0 10 6 Distance (mm) RADII XPERT ULTRADENT Valo® Grand (Standard) DENTSPLY SIRONA Smartlite® ■ 3M ESPE Elipar™ DeepCure-Sⁿ Focus ■ IVOCLAR VIVADENT Bluephase® ULTRADENT VALO® Cordless Style (Standard)

Independently tested by Tufts University School of Dental Medicine, Boston, USA, 2017 Results normalised to 100% at 0 mm Tested on a BlueLight Analytics® Inc. MARC® light collector with 4-mm aperture ~ These are not registered trademarks of SDI Ltd

BASE WITH INTENSITY INDICATOR

Radii Xpert's built-in intensity indicator allows light intensity to be monitored easily, without the need to purchase an additional hand held meter to assess relative change in output. Routine evaluation of a curing light is important for optimal operation.

ENHANCED HEAT MANAGEMENT

Restorations can be cured safely with Radii Xpert. Heat sink technology is incorporated to reduce the amount of heat emission. Enhanced heat management prevents damage to pulp tissue that can be caused by excess heat.

You can conveniently cure multiple restorations without the risk of overheating the unit. The absence of excess heat also helps to maintain the life of the LED.

HEAT SINK TECHNOLOGY

Multiple restorations can be cured safely due to the heat absorption properties of heat sink. Heat sink technology directs heat away from the LED, without the need for a cooling fan.

PULSE TECHNOLOGY

Radii Xpert uses a combination of pulse technology and steady current to further reduce heat emitted onto the tooth. With multiple pulses per second, light output is maintained on the restoration being cured, without the risk of overheating.

INTERCHANGEABLE ATTACHMENTS

Radii Xpert offers versatility with the availability of standard full arch bleaching, diagnostic and orthodontic attachments that snap in with ease.

SLIMLINE DESIGN

Radii Xpert's slimline design enables easy access to the posterior region of the mouth. This is particularly beneficial when treating children.

EASY TO CLEAN

Radii Xpert has smooth surfaces and comes with a perfectly fitted barrier sleeve to prevent crosscontamination.

DURABI F

Radii Xpert is constructed with high strength polymer for durability.

CORDLESS

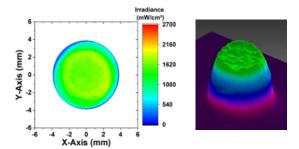
Radii Xpert is a cordless unit allowing complete freedom of movement.

TECHNICAL REPORT - RADII XPERT

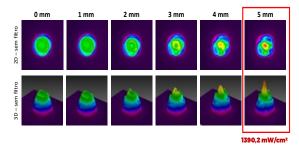
CONSISTENT LIGHT BEAM PROFILE

The active tip of the Radii Xpert has a homogeneous distribution of the light beam profile. This feature guarantees well-distributed irradiance throughout the restoration region.

This is enough to adequately activate composite resins and resin cements. Radii Xpert is perfect for deep cavities, as the irradiance remains high even at a depth of 5 mm, delivering up to 1,390 mW/cm².



DISTANCE (MM)



Even if the tip of the Radii Xpert is moved up to 5 mm from the surface, the device emits adequate light intensity.

Prof. Carlos José Soares et al., Faculty of Dentistry, Federal University of Uberlândia 2023.

Dr Joshua Austin, DDS, MAGD. Dental Economics -United States - November 2020

>> Your curing light is vitally important to your dentistry and your practice. You need several things in a curing light. The Radii Xpert by SDI has all of those things. It gives you functionality and flexibility for everyday use.

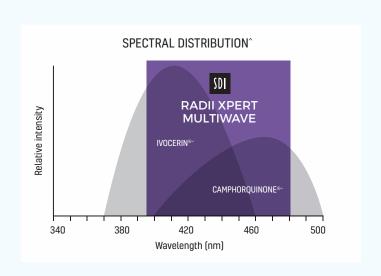
Dr Joshua Austin, DDS, MAGD. Dental Economics -United States - November 2020

>> Radii Xpert's broad spectrum of light allows photoactivation of diverse materials such as composite resins, adhesives, cements, among others that have different photoinitiators.

Prof. Carlos José Soares et al., Faculty of Dentistry, Federal University of Uberlândia 2023

EMISSION SPECTRUM

Radii Xpert Multiwave will cure all commercially available composites. The peak light intensity of 1,390 mW/cm² over a 4mm aperture covers a wavelength range between 395 - 480 nm. Radii Xpert Multiwave covers the absorbance spectrum of composites containing camphorquinone in combination with phenyl-propadione (PPD), acyl phosphine oxide (e.g. Lucerin TPO®~) or Ivocerin®



KEY FEATURES

360° ROTATABLE HEAD

Radii Xpert's 360-degree rotatable head enables restorations in all quadrants to be accessed with ease.

185_G LIGHT WEIGHT

Weighing 185g, Radii Xpert is lightweight and minimises hand and arm fatigue.

2.5 HOUR RUNTIME

Achieve 900 x 10 second cures with Radii Xpert before the need to recharge. This equates to a convenient 2-hour 30 minute runtime.

Unique target assist for precision curing

Optimally collimated beam

Consistent light intensity

Smart technology for ease of use

Ergonomically well-balanced grip

Cures all composites

Consistent beam profile

Enhanced heat management

Base with intensity indicator

The Radii Xpert has received the ratings below for purchase recommendation.

Presentation/ergonomics****

Easy to use ****

Innovation ****

Efficiency ****

Purchase recommendation:

Source: id Information-Dentaire n° 40 - 22 novembre 2023



LED ATTACHMENTS AVAILABLE

MULTIWAVE

WAVELENGTH: 395 - 480 nm

PEAK WAVELENGTH: 405 nm and 460 nm

LIGHT INTENSITY: 1400 mW/cm2 (peak)

DURATION OF CONTINUOUS USE: 20 seconds

TIME TO CHARGE FLAT BATTERY: 3 - 5 hours

TIME TO CHARGE BATTERY (GENERAL USE): 60 - 180 minutes

BATTERY: 1 x 3.7 V 2600 mAh

MULTI-REGION PLUG PACK: AC input: $100 - 240 \text{ V} \sim 0.8\text{A}$, 50 - 60 Hz DC output: 12V 1.66A, 20.0W MAX Dimensions: 34mm (H) x 41mm (W) x 62.5 (L) Weight: 104g

OPERATING TEMPERATURE: 10°C - 40°C / 50°F - 104°F

WEIGHT: 185 g / 6.5 ounces

TOTAL HEIGHT WITH HANDPIECE: 290 mm

Radii Xpert LED curing light has a 3 year warranty.

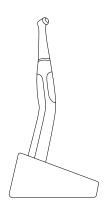
"The irradiance as measured using a 4-mm diameter sensor that is centred



LED ATTACHMENTS

LED ATTACHMENT TYPE		INDICATIONS	PROGRAM	COLOUR
9 1	Standard LED attachment ø 7mm	Light curing at contra angle similar to a hand piece	Run time: 2, 10, 20 seconds as selected Beeps at completion	Blue light (440 nm - 480 nm)
	Diagnostic LED attachment ø 7mm	Detection of cracks, fractures, calculus, decay, caries, root canal openings, non-vital teeth, leaking restorations and root tips	Run time: 5 minutesLow, medium or high intensity selections availableBeeps at completion	White light (440 nm - 480 nm)
9	Orthodontic LED attachment ø 7mm	Light curing specifically for orthodontic use	•Run time: 5 minutes or 10 seconds as selected •Beeps at completion	Blue light (440 nm - 480 nm)
	Full arch bleaching LED attachment	In-office whitening of upper and lower archVital and non-vital whitening procedures	Run time: 8, 10, 15 minutes as selected Beeps at half-way point for each selection and at completion	Blue light (440 nm - 480 nm)

ORDER DETAILS



RADII XPERT LED CURING LIGHT	
Radii Xpert LED curing light	5600312
- 1 x Multiwave LED attachment	
- 1 x Radii Xpert handpiece	
- 1 x charger	
- 1 x multi-region plug pack	
- 5 x small light shields	
- 1 x large light shield	
- 3 x spare lens caps	
- 100 x barrier sleeves	
LED ATTACHMENTS	

LED ATTACHMENTS	
Radii Xpert standard LED attachment	5600301
Radii Xpert full arch bleaching LED attachment - 1 x full arch bleaching LED attachment - 2 x light shields - 50 x barrier sleeves	5600308
Radii Xpert diagnostic LED attachment	5600306
Radii Xpert orthodontic LED attachment	5600307
Radii Xpert multiwave LED attachment	5600311

ACCESSORIES AND REPLACEMENT PARTS

AGCEGGGREG AND RELEASE LEVEL LANGE	
Radii Xpert replacement lens caps [5 pack]	5600310
Radii Xpert barrier sleeves [1000 pack]	5600309
Radii Xpert small light shield [5 pack]	5600056
Radii Xpert large light shield	5600089
Radii Xpert replacement battery pack	5600305
Radii Xpert charger + plug pack	5600304
Bleach stand	5600095
Full arch bleaching LED attachment barrier sleeves [50 pack]	5600093
Full arch bleaching LED attachment light shields [5 pack]	5600094
Diagnostic adapter tip	5600078
Tacking tip set (1 mm and 2 mm openings)	5600079





MADE IN AUSTRALIA by SDI Limited Bayswater, Victoria 3153 Australia www.sdi.com.au **AUSTRALIA** 1800 337 003 **AUSTRIA** 00800 022 55 734 **BRAZIL** 0800 770 1735 **FRANCE** 00800 022 55 734 **GERMANY** 0800 100 5759 ITALY 00800 0225 5734

NEW ZEALAND 0800 808 855

SPAIN 00800 022 55 734

UNITED KINGDOM 00800 022 55 734

USA & CANADA 1 800 228 5166