SMARTER DESIGN.
OPTIMAL CURE EVERY TIME.

TARGET ASSIST
PRECISION CURING

COLLIMATED LIGHT

SMART TECHNOLOGY
FOR EASE OF USE

ERGONOMICALLY
WELL-BALANCED GRIP

LEADERS IN LED CURING
SMARTER DESIGN. OPTIMAL CURE EVERY TIME.

UNIQUE TARGET ASSIST FOR PRECISION CURING
Radii Xpert’s unique target assist technology enables you to correctly position the light and be confident of the angulation before curing. A light source must be held close and perpendicular to a restoration to avoid incomplete polymerization. By activating the positioning light and releasing once over the tooth, you can be sure that curing only begins when the light is in position and restorations will receive a complete cure. Ensure you are on target every time with Radii Xpert.

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, minimizing hand and arm fatigue.

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.
PROFESSIONAL LED CURING LIGHT

1500 mW/cm²
LIGHT INTENSITY

CONSISTENT LIGHT INTENSITY
Radii Xpert has better performance due to the light intensity remaining consistent over clinically relevant distances. The consistent intensity ensures light will penetrate the underlying restorative with limited drop off, giving you the confidence of a full cure to the depth of a restoration.

CURES ALL COMPOSITES
Radii Xpert will cure all commercially available composites without the need for a polywave light. The light intensity of 1500 mW/cm² over a 4 mm aperture covers a wavelength range between 440 nm - 480 nm. Radii Xpert delivers the right spectral distribution without the need for extended wavelengths, giving you a reliable cure for all composites, including those with Camphorquinone and Ivocerin®.

CONSISTENT BEAM PROFILE
Restorations can be cured with the confidence of a uniform beam profile using Radii Xpert. The beam delivers an even energy distribution, with reduced hot and cold spot variation. The entire beam profile of a curing light is important to ensure restorations are cured evenly.

Independent testing 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
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SPECTRAL DISTRIBUTION

Relative Intensity

Wavelength (nm)

SDI Internal Data

LIGHT COMPARISON
Intensity % over distance

ULTRADENT Valo® Grand (Standard)
ULTRADENT VALO® Cordless (Standard)
SM ESPE Elipar® DeepCure-S®
DENTSPLY SIRONA SmartLite® Focus®
RADII XPERT
IVOCLAR VIVADENT Bluephase® Style®

Irradiance distribution [mW/cm²]

0 420 840 1260 1680 2100

SDI Internal Data

BEAM PROFILE AT 0 MM DISTANCE WITHIN THE ACTIVE AREA.
BLUELIGHT ANALYTICS INC., 2017
LED ATTACHMENTS AVAILABLE

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.

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 full arch bleaching, diagnostic and orthodontic attachments that snap in with ease.

<table>
<thead>
<tr>
<th>LED ATTACHMENT TYPE</th>
<th>INDICATIONS</th>
<th>PROGRAM</th>
<th>COLOR</th>
</tr>
</thead>
</table>
| Standard LED attachment | 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 | Detection of cracks, fractures, calculus, decay, caries, root canal openings, non-vital teeth, leaking restorations and root tips | • Run time: 5 minutes  
• Low, medium or high intensity selections available  
• Beeps at completion | White light |
| Orthodontic LED attachment | 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 arch  
Vital 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) |

TECHNICAL DATA

<table>
<thead>
<tr>
<th>STANDARD ATTACHMENT</th>
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</thead>
<tbody>
<tr>
<td>Wavelength: 440 nm – 480 nm</td>
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<tr>
<td>Peak wavelength: 460 nm</td>
</tr>
<tr>
<td>Light intensity: 1500 mW/cm² (+5 %, -15 %) from 0 - 10 mm distance</td>
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<tr>
<td>Duration of continuous use: 20 seconds</td>
</tr>
<tr>
<td>Time to charge flat battery: 3 - 5 hours</td>
</tr>
<tr>
<td>Time to charge battery (general use): 60 - 180 minutes</td>
</tr>
<tr>
<td>Battery: 1 x 3.7 V 2600 mAh</td>
</tr>
<tr>
<td>Multi-region plug pack: AC input: 100 - 240 V ~ 1.0 A, 50 - 60 Hz DC output: 12 V, 1.5 A &amp; 15 W Max</td>
</tr>
<tr>
<td>Operating temperature: 10°C - 40°C / 50°F – 104°F</td>
</tr>
<tr>
<td>Weight: 185 g / 6.5 ounces</td>
</tr>
<tr>
<td>Total height with handpiece: 290 mm</td>
</tr>
</tbody>
</table>

Radii Xpert LED curing light has a 3 year warranty. Battery has a 2 year warranty. *The irradiance as measured using a 4-mm diameter sensor that is centered.
KEY FEATURES

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 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.

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

360° ROTATABLE HEAD
Radii Xpert’s 360-degree rotatable head enables restorations in all quadrants to be accessed with ease.

185G LIGHT WEIGHT
Weighing 185g, Radii Xpert is lightweight and minimizes 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.

EASY TO CLEAN
Radii Xpert has smooth surfaces and comes with a perfectly fitted barrier sleeve to prevent cross-contamination.

DURABLE
Radii Xpert is constructed with high strength polymer for durability.

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

RADI XPERT LED CURING LIGHT
Radii Xpert LED curing light
- 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
Radii Xpert standard LED attachment
Radii Xpert full arch bleaching LED attachment
- 1 x full arch bleaching LED attachment
- 2 x light shields
- 50 x barrier sleeves
Radii Xpert diagnostic LED attachment
Radii Xpert orthodontic LED attachment

ACCESSORIES AND REPLACEMENT PARTS
Radii Xpert replacement lens caps
- 5 pack
Radii Xpert barrier sleeves
- 1000 pack
Radii Xpert small light shield
- 5 pack
Radii Xpert large light shield
Radii Xpert replacement battery pack
Radii Xpert charger + plug pack
Bleach stand
Full arch bleaching LED attachment barrier sleeves
- 50 pack
Full arch bleaching LED attachment light shields
- 5 pack
Diagnostic adapter tip
Tacking tip set (1 mm and 2 mm openings)

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